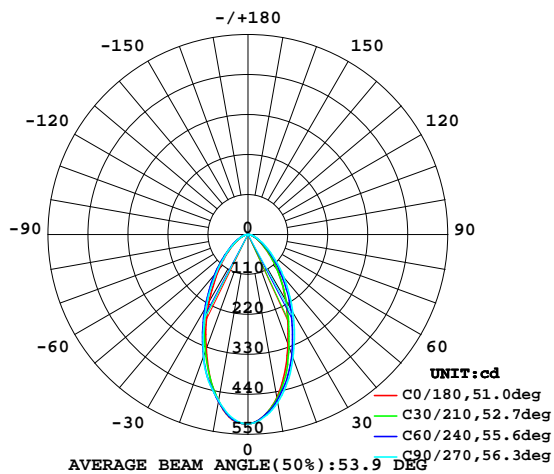


LUMINAIRE PHOTOMETRIC TEST REPORT

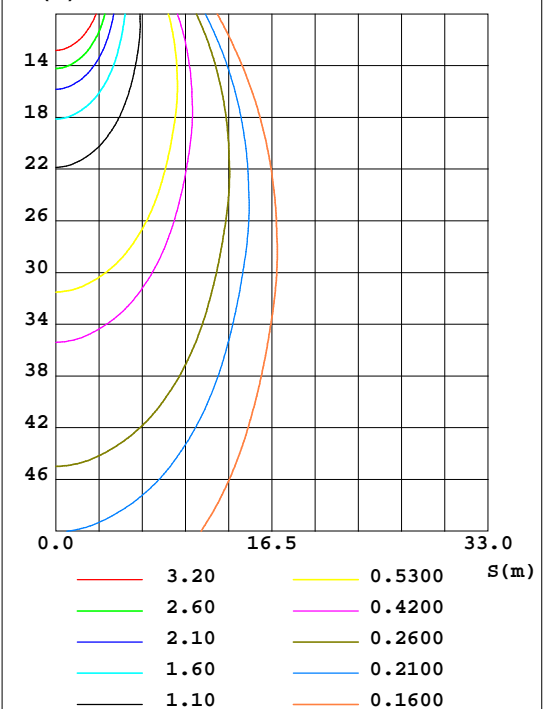
NAME: 5RS128	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:001
MFR.: Lediant	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 85.56 lm/W			
MODEL	2700K	I _{max} (cd)	520.8	S/MH(C0/180)	0.74
NOMINAL POWER(W)	7	LOR(%)	100.0	S/MH(C90/270)	0.83
RATED VOLTAGE(V)	228	TOTAL FLUX(lm)	568.71	h UP,DN(C0-180)	0.1,50.2
NOMINAL FLUX(lm)	568.715	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.1,49.6
LAMPS INSIDE	1	h up(%)	0.2	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	228.7	h down(%)	99.8	CIBSE SHR MAX	0.90

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2019-06-03

g Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.279
Humidity:65.0%
Test Distance:8.989m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	456.3	461.3	470.1	469.2	466.4	466.4	465.2	457.2	0- 10	46.91	46.91	8.25,8.25
20	321.6	341.3	362.4	346.4	336.8	350.7	357.7	334.3	10- 20	113.4	160.3	28.2,28.2
30	208.8	223.1	247.6	224.4	215.0	234.8	231.1	217.0	20- 30	128.8	289.2	50.8,50.8
40	125.0	133.2	153.7	131.3	124.1	141.0	133.7	127.7	30- 40	109.9	399.1	70.2,70.2
50	67.30	73.86	85.93	71.87	68.48	75.58	72.45	67.97	40- 50	77.29	476.4	83.8,83.8
60	34.05	39.42	45.54	37.36	35.46	38.68	38.30	34.99	50- 60	47.74	524.1	92.2,92.2
70	17.05	19.42	21.62	18.37	17.52	18.88	18.73	17.35	60- 70	26.95	551.1	96.9,96.9
80	6.672	7.571	7.944	7.135	6.830	7.169	7.053	6.613	70- 80	13.08	564.1	99.2,99.2
90	0.0380	0.0319	0.0255	0.0323	0.0252	0.0350	0.0449	0.0290	80- 90	3.187	567.3	99.8,99.8
100	0.0252	0.0349	0.0447	0.0320	0.0378	0.0381	0.0319	0.0352	90-100	0.0337	567.3	99.8,99.8
110	0.0566	0.0729	0.0829	0.0609	0.0630	0.0760	0.0765	0.0673	100-110	0.0506	567.4	99.8,99.8
120	0.0881	0.1236	0.1340	0.1052	0.1259	0.1141	0.1403	0.1186	110-120	0.0901	567.5	99.8,99.8
130	0.1897	0.2123	0.2296	0.2083	0.2203	0.2122	0.2041	0.2166	120-130	0.1496	567.6	99.8,99.8
140	0.3397	0.3645	0.3764	0.3364	0.3463	0.3582	0.3827	0.3557	130-140	0.2126	567.9	99.8,99.8
150	0.4845	0.5324	0.5422	0.5094	0.5225	0.5166	0.5115	0.5255	140-150	0.2705	568.1	99.9,99.9
160	0.6735	0.7163	0.7273	0.6954	0.7114	0.7068	0.6952	0.7050	150-160	0.2835	568.4	99.9,99.9
170	0.8621	0.8620	0.8802	0.8491	0.8687	0.8684	0.8482	0.8619	160-170	0.2224	568.6	100,100
180	0.9378	0.9286	0.9185	0.9260	0.9504	0.9381	0.9121	0.9132	170-180	0.0854	568.7	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

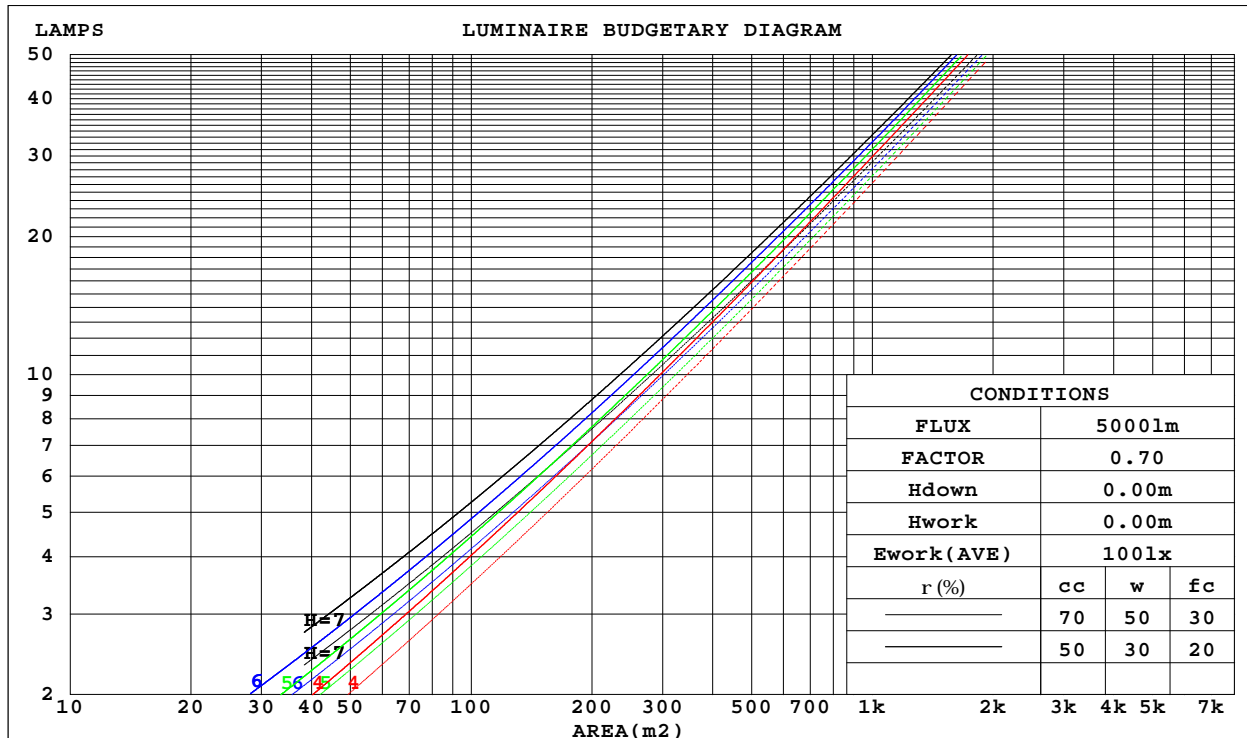
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2019-06-03

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.279
 Humidity:65.0%
 Test Distance:8.989m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: 5RS128	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:001
MFR.: Lediant	SUR.:	PROTECTION ANGLE:

r _{cc}	80%			70%			50%			30%			10%			0
r _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r _{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2019-06-03

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.279
 Humidity: 65.0%
 Test Distance: 8.989m [K=1.0000]
 Remarks:

WEC AND CCEC

NAME: 5RS128	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:001
MFR.: Lediand	SUR.:	PROTECTION ANGLE:

rcc	80%	70%	50%	30%	10%	0
rw	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	0
rfe	20%	20%	20%	20%	20%	0
RCR	RCR:Room Cavity Ratio Wall Exitance Coefficients(WEC)					
0.0						
1.0	.228 .130 .041	.221 .126 .040	.208 .119 .038	.196 .113 .036	.185 .107 .035	
2.0	.218 .120 .037	.212 .117 .036	.201 .112 .035	.191 .107 .034	.181 .103 .032	
3.0	.206 .110 .033	.201 .108 .032	.191 .104 .031	.182 .100 .031	.174 .096 .030	
4.0	.194 .101 .030	.189 .099 .029	.181 .096 .029	.173 .093 .028	.166 .090 .027	
5.0	.182 .093 .027	.178 .092 .027	.171 .089 .026	.164 .086 .026	.157 .084 .025	
6.0	.172 .086 .025	.168 .085 .024	.162 .083 .024	.155 .081 .024	.150 .079 .023	
7.0	.162 .080 .023	.159 .079 .023	.153 .077 .022	.148 .076 .022	.142 .074 .022	
8.0	.153 .075 .021	.151 .074 .021	.145 .073 .021	.140 .071 .021	.136 .070 .020	
9.0	.145 .070 .020	.143 .070 .020	.138 .068 .019	.134 .067 .019	.129 .066 .019	
10.0	.138 .066 .018	.136 .066 .018	.132 .064 .018	.127 .063 .018	.124 .062 .018	

rcc	80%	70%	50%	30%	10%	0
rw	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	0
rfe	20%	20%	20%	20%	20%	0
RCR	RCR:Room Cavity Ratio Ceiling Cavity Exitance Coefficients(CCEC)					
0.0	.192 .192 .192	.164 .164 .164	.112 .112 .112	.064 .064 .064	.021 .021 .021	
1.0	.177 .159 .143	.151 .136 .123	.103 .094 .085	.059 .054 .049	.019 .017 .016	
2.0	.164 .134 .109	.141 .115 .094	.096 .080 .066	.056 .046 .038	.018 .015 .013	
3.0	.154 .116 .085	.132 .100 .074	.091 .069 .052	.052 .041 .031	.017 .013 .010	
4.0	.145 .102 .068	.125 .088 .059	.086 .061 .042	.050 .036 .025	.016 .012 .008	
5.0	.137 .091 .056	.118 .078 .049	.081 .055 .035	.047 .032 .020	.015 .010 .007	
6.0	.130 .082 .047	.112 .071 .041	.077 .050 .029	.045 .029 .017	.014 .010 .006	
7.0	.123 .074 .040	.106 .065 .035	.073 .045 .025	.043 .027 .015	.014 .009 .005	
8.0	.118 .068 .035	.101 .059 .030	.070 .042 .022	.041 .025 .013	.013 .008 .004	
9.0	.112 .063 .031	.097 .055 .027	.067 .039 .019	.039 .023 .011	.013 .007 .004	
10.0	.107 .059 .027	.092 .051 .024	.064 .036 .017	.037 .021 .010	.012 .007 .003	

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2019-06-03

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.279
Humidity:65.0%
Test Distance:8.989m [K=1.0000]
Remarks:

Uncorrected UGR Table

NAME: 5RS128					TYPE:					WEIGHT:				
SPEC.:					DIM.:					SERIAL No.:001				
MFR.: Lediant					SUR.:					PROTECTION ANGLE:				
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3				
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3				
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2				
Room dimensions					Viewed crosswise					Viewed endwise				
x = 2H y = 2H	2H	25.9	27.1	26.2	27.3	27.5	27.1	28.2	27.3	28.4	28.6			
	3H	26.5	27.6	26.8	27.8	28.1	27.7	28.8	27.9	29.0	29.2			
	4H	26.7	27.8	27.0	28.0	28.3	27.9	28.9	28.2	29.2	29.4			
	6H	26.9	27.9	27.2	28.1	28.4	28.0	29.0	28.4	29.3	29.5			
	8H	26.9	27.9	27.3	28.2	28.4	28.1	29.0	28.4	29.3	29.6			
	12H	27.0	27.9	27.3	28.1	28.4	28.1	29.0	28.4	29.3	29.6			
4H	2H	26.3	27.3	26.6	27.5	27.8	27.2	28.2	27.5	28.5	28.7			
	3H	27.0	27.9	27.3	28.2	28.5	28.0	28.9	28.3	29.2	29.5			
	4H	27.3	28.2	27.7	28.5	28.8	28.3	29.1	28.7	29.4	29.8			
	6H	27.6	28.3	28.0	28.7	29.0	28.5	29.3	28.9	29.6	30.0			
	8H	27.7	28.3	28.1	28.7	29.1	28.6	29.3	29.0	29.7	30.0			
	12H	27.7	28.3	28.1	28.7	29.1	28.7	29.3	29.1	29.7	30.1			
8H	4H	27.5	28.1	27.9	28.5	28.9	28.4	29.0	28.8	29.4	29.8			
	6H	27.8	28.4	28.3	28.8	29.2	28.7	29.3	29.1	29.7	30.1			
	8H	28.0	28.5	28.4	28.9	29.3	28.8	29.3	29.3	29.8	30.2			
	12H	28.1	28.5	28.5	28.9	29.4	29.0	29.4	29.4	29.8	30.3			
12H	4H	27.4	28.1	27.9	28.4	28.8	28.3	29.0	28.8	29.3	29.7			
	6H	27.8	28.3	28.3	28.8	29.2	28.7	29.2	29.2	29.6	30.1			
	8H	28.0	28.4	28.5	28.9	29.4	28.9	29.3	29.4	29.7	30.2			
Variations with the observer position at spacings:														
S = 1.0H		+ 0.6 / - 0.8					+ 0.5 / - 0.7							
1.5H		+ 0.5 / - 0.5					+ 0.6 / - 0.5							
2.0H		+ 1.1 / - 1.0					+ 1.3 / - 1.0							

CIE Pub.117 Corrected 568.7 lm Total Lamp Luminous Flux.(8log(F/F0) = -2.0)

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2019-06-03

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.279
Humidity:65.0%
Test Distance:8.989m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

NAME: 5RS128	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:001
MFR.: Lediant	SUR.:	PROTECTION ANGLE:

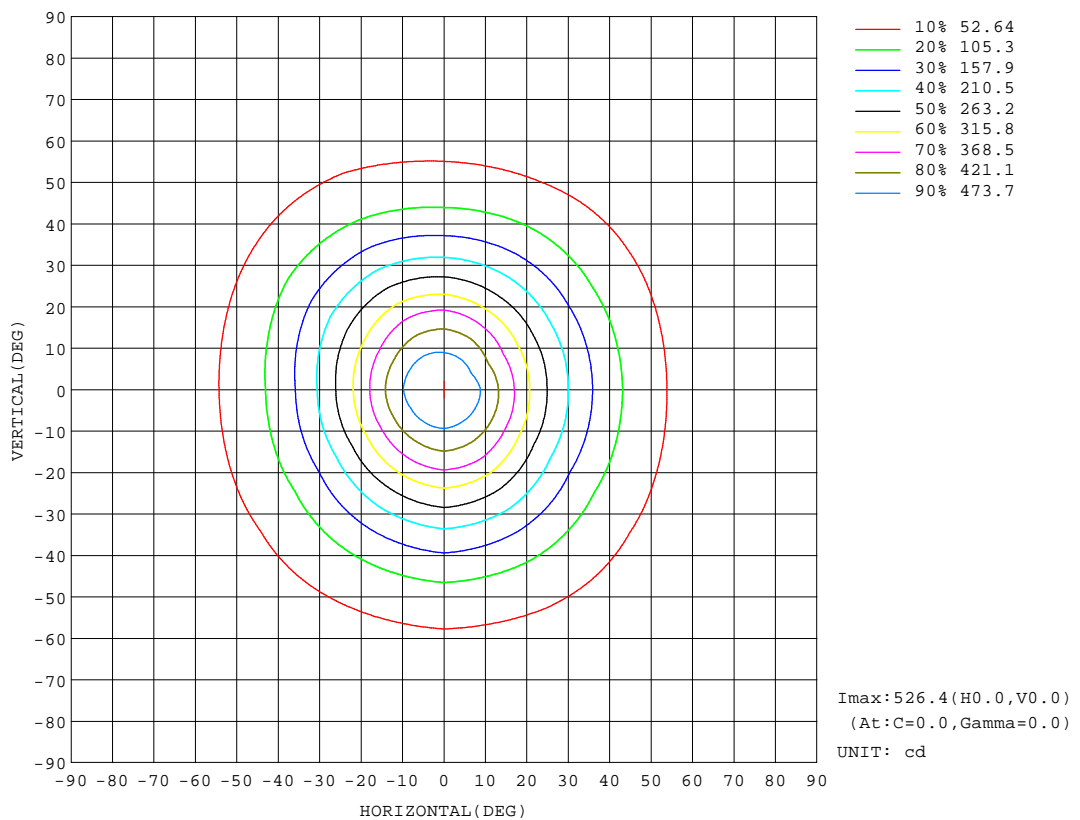
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	73	64	59	72	64	59	71	63	58	53
0.80	82	73	68	81	73	68	80	72	67	62
1.00	89	81	75	88	80	75	86	81	74	69
1.25	94	87	82	93	86	81	91	85	80	75
1.50	98	91	86	97	90	86	94	89	85	79
2.00	103	97	92	101	96	91	98	94	90	84
2.50	105	100	96	104	99	95	100	96	93	86
3.00	108	103	99	106	101	98	102	99	96	88
4.00	111	107	103	108	105	102	104	102	99	91
5.00	112	109	106	110	107	104	106	103	101	93
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2019-06-03

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.279
 Humidity:65.0%
 Test Distance:8.989m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

NAME: 5RS128	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:001
MFR.: Lediant	SUR.:	PROTECTION ANGLE:

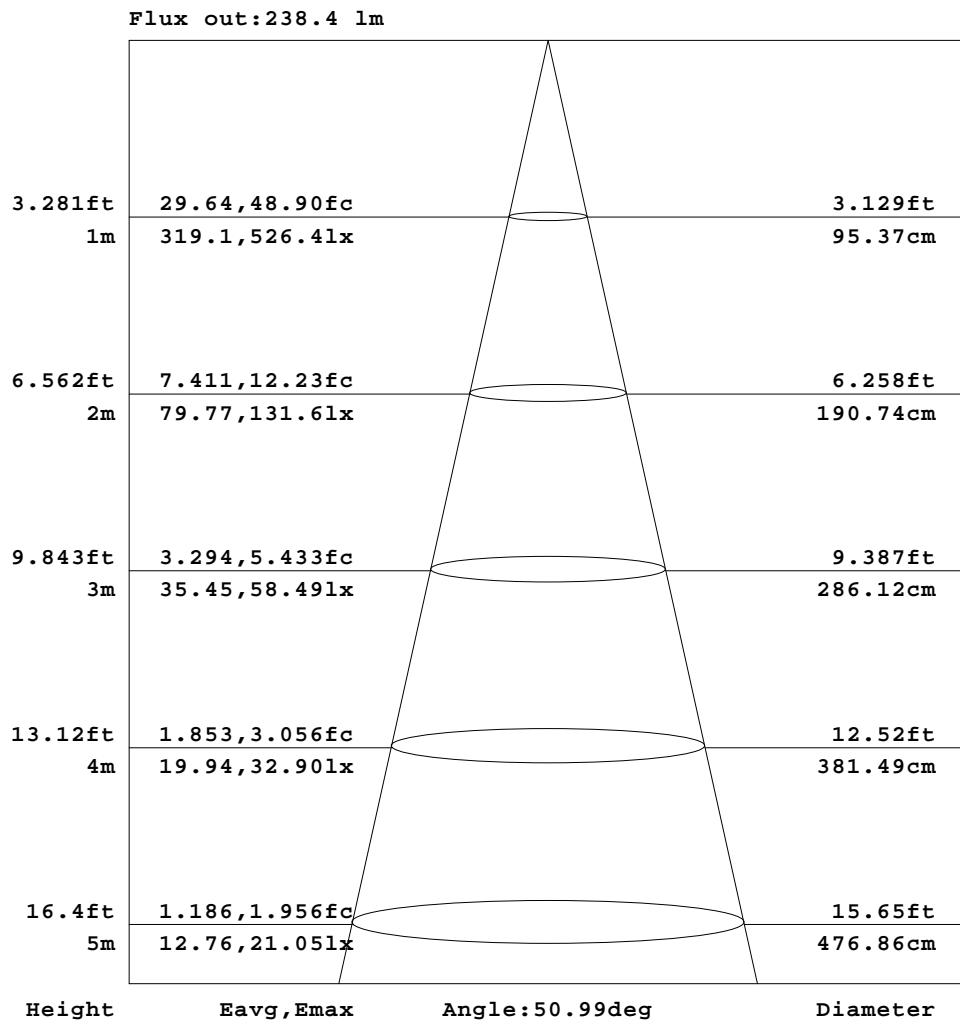


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2019-06-03

Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.279
Humidity:65.0%
Test Distance:8.989m [K=1.0000]
Remarks:

AAI Figure

NAME: 5RS128	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:001
MFR.: Lediand	SUR.:	PROTECTION ANGLE:



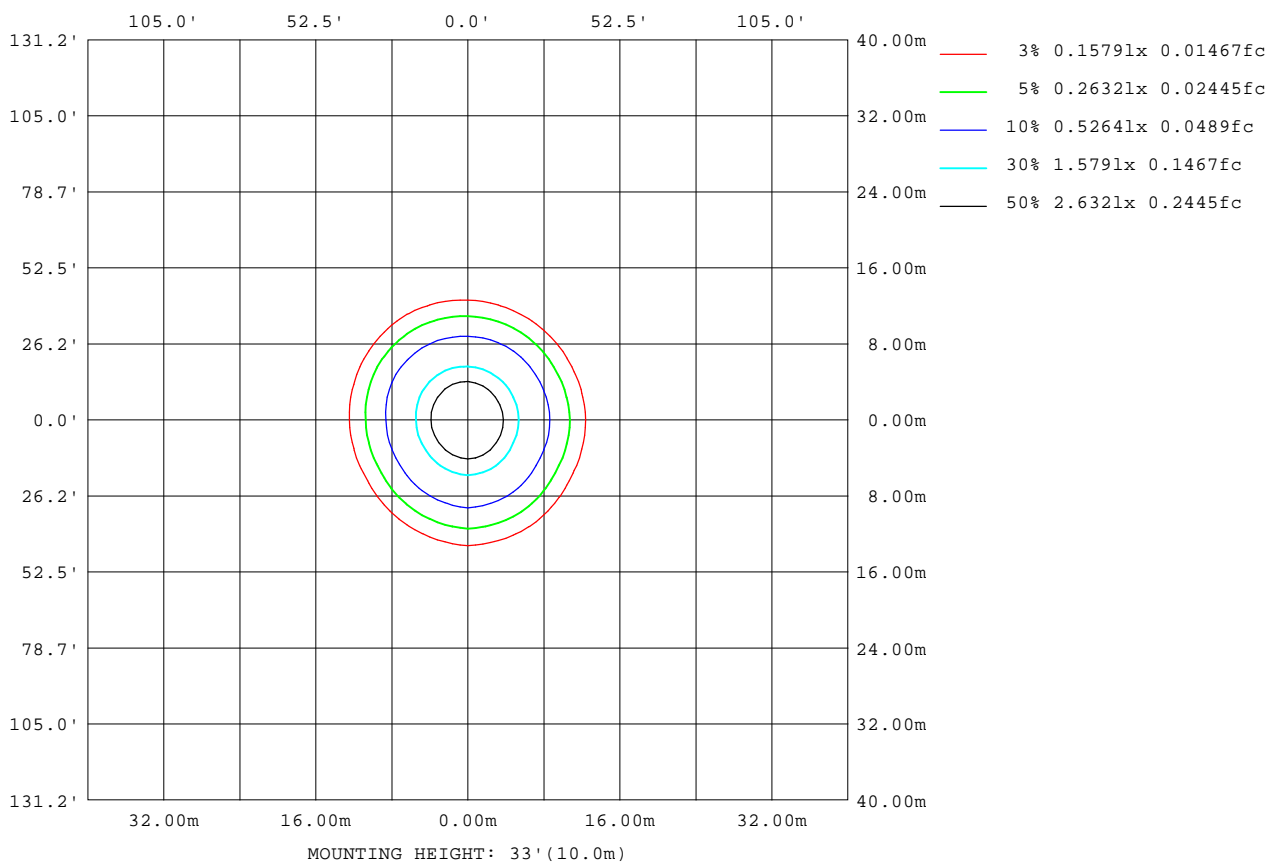
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2019-06-03

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.279
Humidity: 65.0%
Test Distance: 8.989m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

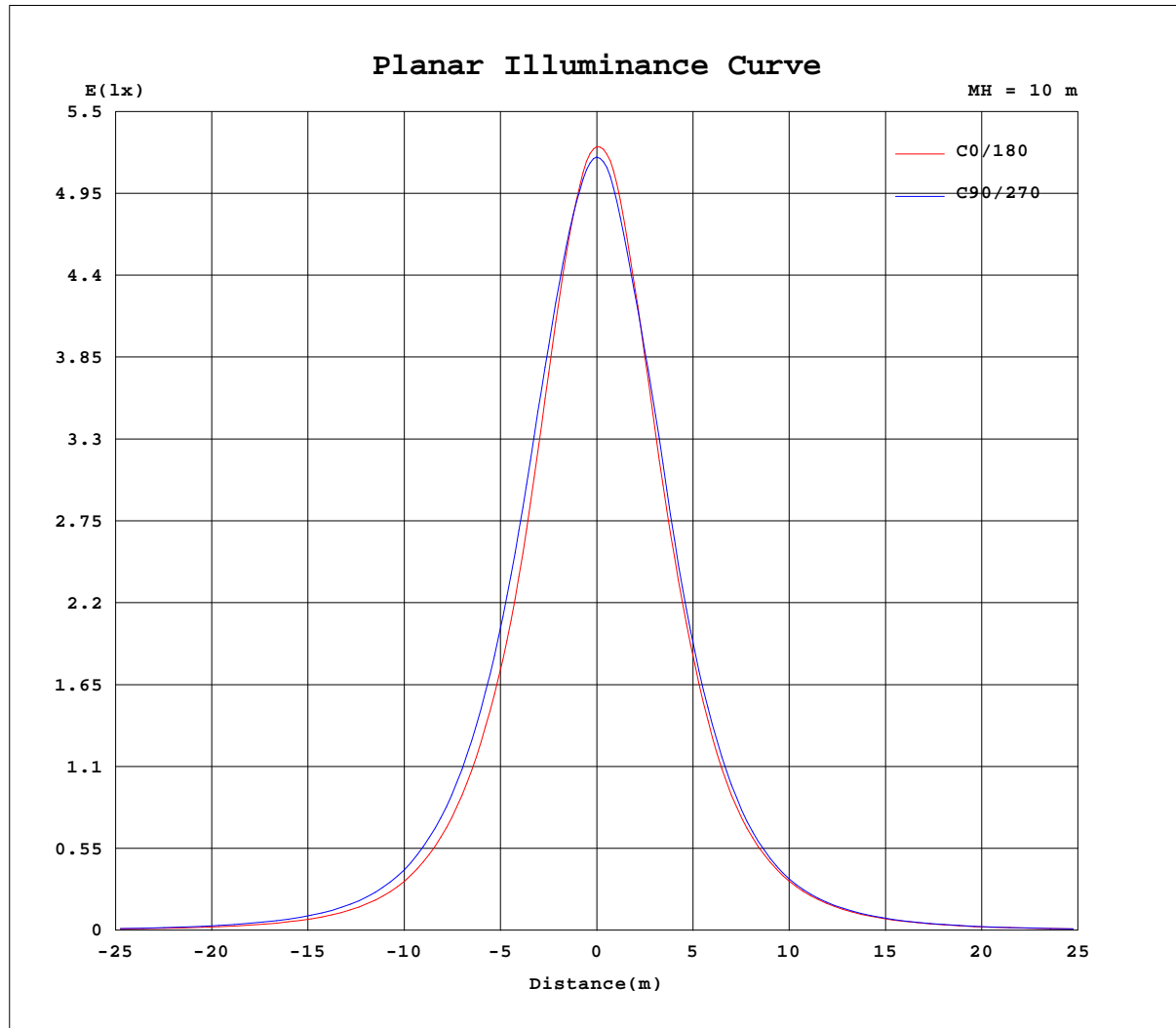
NAME: 5RS128	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:001
MFR.: Lediand	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2019-06-03

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.279
Humidity: 65.0%
Test Distance: 8.989m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2019-06-03

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.279
Humidity: 65.0%
Test Distance: 8.989m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: 5RS128	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:001
MFR.: Lediand	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: cd

C(°) g (°)	0	30	60	90	120	150	180	210	240	270	300	330						
0	521	521	521	521	521	521	521	521	521	521	521	521						
5	501	502	502	505	507	510	511	509	509	506	503	501						
10	456	459	464	470	469	470	466	466	467	465	461	453						
15	392	401	413	421	414	410	405	406	417	418	410	392						
20	322	330	353	362	352	341	337	343	358	358	341	328						
25	259	265	290	303	288	276	274	285	296	290	276	266						
30	209	211	235	248	232	216	215	231	238	231	221	213						
35	163	164	185	198	182	165	164	182	187	178	173	165						
40	125	124	142	154	139	124	124	140	142	134	131	125						
45	92.7	93.0	107	116	104	91.9	93.0	104	105	98.7	96.3	91.4						
50	67.3	68.0	79.7	85.9	76.4	67.3	68.5	74.4	76.7	72.5	69.3	66.6						
55	48.1	50.1	58.3	63.1	55.3	48.6	49.7	52.0	56.0	52.9	49.2	48.3						
60	34.0	36.9	41.9	45.5	39.9	34.8	35.5	36.7	40.7	38.3	35.4	34.6						
65	24.3	26.4	29.6	31.9	28.1	24.7	25.1	26.0	28.7	27.1	25.2	24.5						
70	17.1	18.5	20.3	21.6	19.4	17.3	17.5	18.1	19.7	18.7	17.6	17.1						
75	11.3	12.3	13.2	13.8	12.7	11.5	11.6	11.8	12.8	12.2	11.6	11.2						
80	6.67	7.39	7.75	7.94	7.46	6.81	6.83	6.94	7.40	7.05	6.77	6.46						
85	2.50	3.00	3.19	3.42	3.11	2.68	2.75	2.80	3.12	2.75	2.58	2.40						
90	0.04	0.03	0.04	0.03	0.04	0.03	0.03	0.04	0.03	0.04	0.03	0.03						
95	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03						
100	0.03	0.04	0.03	0.04	0.03	0.04	0.04	0.03	0.04	0.03	0.04	0.03						
105	0.03	0.05	0.03	0.06	0.03	0.05	0.05	0.04	0.06	0.06	0.06	0.03						
110	0.06	0.08	0.06	0.08	0.06	0.06	0.06	0.07	0.08	0.08	0.08	0.05						
115	0.08	0.11	0.08	0.11	0.08	0.09	0.10	0.08	0.11	0.08	0.10	0.07						
120	0.09	0.15	0.10	0.13	0.08	0.13	0.13	0.09	0.14	0.14	0.14	0.10						
125	0.16	0.18	0.18	0.18	0.17	0.17	0.17	0.14	0.18	0.18	0.18	0.16						
130	0.19	0.23	0.20	0.23	0.20	0.22	0.22	0.18	0.24	0.20	0.24	0.20						
135	0.26	0.29	0.27	0.29	0.27	0.28	0.27	0.27	0.30	0.28	0.30	0.25						
140	0.34	0.36	0.37	0.38	0.33	0.35	0.35	0.34	0.38	0.38	0.38	0.33						
145	0.40	0.46	0.42	0.46	0.39	0.44	0.42	0.39	0.46	0.43	0.45	0.40						
150	0.48	0.54	0.52	0.54	0.49	0.53	0.52	0.48	0.55	0.51	0.56	0.49						
155	0.59	0.64	0.60	0.64	0.59	0.62	0.62	0.59	0.64	0.61	0.64	0.60						
160	0.67	0.74	0.69	0.73	0.68	0.71	0.71	0.68	0.74	0.70	0.73	0.68						
165	0.79	0.82	0.79	0.82	0.79	0.80	0.80	0.80	0.81	0.80	0.80	0.82						
170	0.86	0.88	0.84	0.88	0.83	0.87	0.87	0.85	0.88	0.85	0.88	0.85						
175	0.90	0.94	0.89	0.91	0.89	0.92	0.93	0.89	0.92	0.90	0.91	0.89						
180	0.94	0.94	0.91	0.92	0.91	0.94	0.95	0.94	0.94	0.91	0.91	0.91						

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2019-06-03

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.279
Humidity:65.0%
Test Distance:8.989m [K=1.0000]
Remarks: