

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: 195P110

Luminaire Tested: **2P5GX-232S29MI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 195P110
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2P5GX-232S29MI
Description: 2 X 4 Recessed Convertible Body Luminaire with an 18 cell specular low iridescent parabolic louver
Light Source: Two - FO32T8/35K - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: Magnetek B232I120RH Electronic - L.O.B.F. = 87.16

Summary

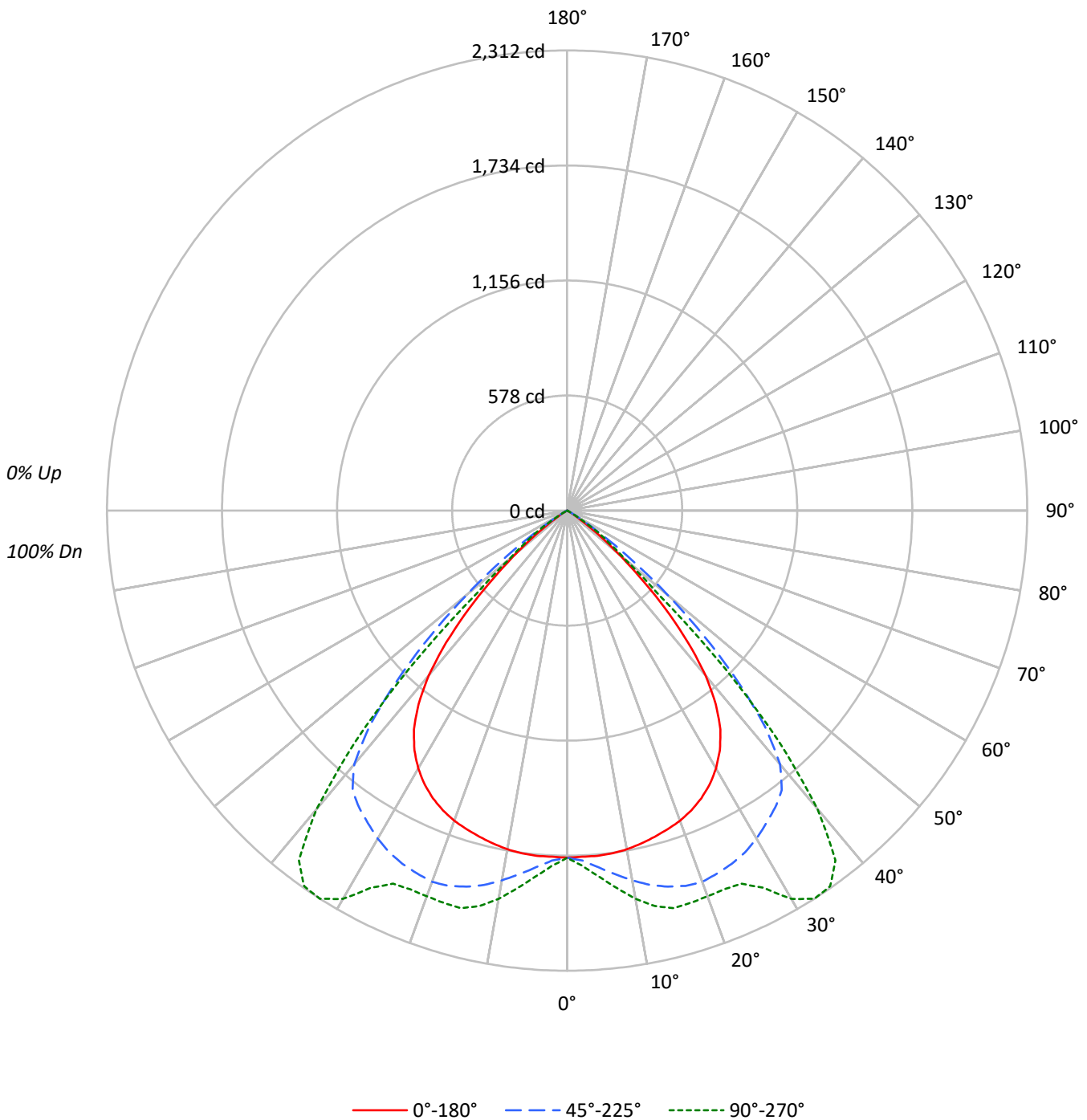
Lumens per Lamp: 2800 (2 lamps)
Luminaire Lumens: 3714.6 lumens
Efficiency: 66.3%
Efficacy: 63.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.68 / 1.41
Luminous Opening: Rectangular (W 1.73' x L: 3.75' x H: 0')
CIE Type: Direct

Input Watts (W): 58.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10	0		
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	79	79	79	79	77	77	77	77	74	74	74		71	71	71		68	68	68	66
1	75	72	71	69	73	71	69	68	68	67	66		66	65	64		63	63	62	61
2	70	66	63	60	68	65	62	59	63	60	58		61	59	57		59	57	56	55
3	65	60	56	53	64	59	56	53	57	54	52		56	53	51		54	52	50	49
4	61	55	51	47	60	54	50	47	53	49	46		51	48	46		50	47	45	44
5	57	50	46	42	56	50	45	42	48	44	41		47	44	41		46	43	41	40
6	53	46	41	38	52	45	41	38	44	40	37		43	40	37		42	39	37	36
7	50	42	37	34	49	42	37	34	41	37	34		40	36	34		39	36	33	32
8	47	39	34	31	46	39	34	31	38	34	31		37	33	31		36	33	30	29
9	44	36	31	28	43	36	31	28	35	31	28		34	31	28		34	30	28	27
10	41	33	29	26	40	33	29	26	32	28	26		32	28	25		31	28	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2895	2895	2895
5°	2901	2998	3078
10°	2913	3179	3337
15°	2916	3361	3554
20°	2929	3506	3642
25°	2921	3586	3788
30°	2867	3648	4318
35°	2719	3692	4669
40°	2342	3606	4243
45°	1634	2840	2629
50°	844	1710	974
55°	269	631	518
60°	43	113	80
65°	27	24	20
70°	19	19	15
75°	19	19	13
80°	19	10	10
85°	19	19	19



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	173.9	4.7	3.1	0°	1744	1744	1744	1744	1744	
10°-20°	543.6	14.6	9.7	5°	1741	1765	1799	1831	1847	166
20°-30°	883.9	23.8	15.8	15°	1697	1814	1956	2048	2068	480
30°-40°	1129.5	30.4	20.2	25°	1595	1793	1958	2048	2068	733
40°-50°	800.6	21.6	14.3	35°	1342	1545	1822	2150	2304	825
50°-60°	170.4	4.6	3.0	45°	696	875	1210	1263	1120	533
60°-70°	8.9	0.2	0.2	55°	93	89	218	202	179	107
70°-80°	2.7	0.1	0.0	65°	7	7	6	6	5	7
80°-90°	1.0	0.0	0.0	75°	3	3	3	2	2	3
90°-100°	0.0	0.0	0.0	85°	1	1	1	1	1	1
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	0
110°-120°	0.0	0.0	0.0	95°	0	0	0	0	0	0
120°-130°	0.0	0.0	0.0	105°	0	0	0	0	0	0
130°-140°	0.0	0.0	0.0	115°	0	0	0	0	0	0
140°-150°	0.0	0.0	0.0	125°	0	0	0	0	0	0
150°-160°	0.0	0.0	0.0	135°	0	0	0	0	0	0
160°-170°	0.0	0.0	0.0	145°	0	0	0	0	0	0
170°-180°	0.0	0.0	0.0	155°	0	0	0	0	0	0
0°-30°	1601.5	43.1	28.6	165°	0	0	0	0	0	0
0°-40°	2731.0	73.5	48.8	175°	0	0	0	0	0	0
0°-60°	3701.9	99.7	66.1	180°	0	0	0	0	0	0
0°-90°	3714.6	100.0	66.3							
90°-120°	0.0	0.0	0.0							
90°-150°	0.0	0.0	0.0							
90°-180°	0.0	0.0	0.0							
0°-180°	3714.6	100.0	66.3							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1744	1744	1744	1744	1744
2.5°	1741	1749	1760	1774	1787
5°	1741	1765	1799	1831	1847
7.5°	1737	1783	1843	1891	1913
10°	1728	1797	1886	1954	1980
12.5°	1714	1807	1927	2006	2035
15°	1697	1814	1956	2048	2068
17.5°	1679	1817	1977	2055	2066
20°	1658	1818	1985	2051	2062
22.5°	1630	1812	1973	2050	2060
25°	1595	1793	1958	2048	2068
27.5°	1551	1763	1936	2056	2136
30°	1496	1718	1903	2113	2253
32.5°	1428	1647	1862	2165	2312
35°	1342	1545	1822	2150	2304
37.5°	1227	1425	1771	2070	2214
40°	1081	1276	1664	1911	1958
42.5°	900	1092	1470	1628	1578
45°	696	875	1210	1263	1120
47.5°	496	627	929	863	614
50°	327	389	662	495	377
52.5°	194	202	416	312	261
55°	93	89	218	202	179
57.5°	34	39	93	113	78
60°	13	17	34	39	24
62.5°	9	9	12	10	7
65°	7	7	6	6	5
67.5°	5	6	5	4	4
70°	4	5	4	3	3
72.5°	3	4	3	3	2
75°	3	3	3	2	2
77.5°	2	2	2	2	2
80°	2	2	1	1	1
82.5°	1	1	1	1	1
85°	1	1	1	1	1
87.5°	1	1	1	1	1
90°	0	0	0	0	0
92.5°	0	0	0	0	0
95°	0	0	0	0	0
97.5°	0	0	0	0	0
100°	0	0	0	0	0
102.5°	0	0	0	0	0
105°	0	0	0	0	0
107.5°	0	0	0	0	0
110°	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0	0	0	0	0
115°	0	0	0	0	0
117.5°	0	0	0	0	0
120°	0	0	0	0	0
122.5°	0	0	0	0	0
125°	0	0	0	0	0
127.5°	0	0	0	0	0
130°	0	0	0	0	0
132.5°	0	0	0	0	0
135°	0	0	0	0	0
137.5°	0	0	0	0	0
140°	0	0	0	0	0
142.5°	0	0	0	0	0
145°	0	0	0	0	0
147.5°	0	0	0	0	0
150°	0	0	0	0	0
152.5°	0	0	0	0	0
155°	0	0	0	0	0
157.5°	0	0	0	0	0
160°	0	0	0	0	0
162.5°	0	0	0	0	0
165°	0	0	0	0	0
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)