

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: 195P114

Luminaire Tested: **2P5GX-232S29VDT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 195P114
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2P5GX-232S29VDT
Description: 2 X 4 Recessed Convertible Body Luminaire with an 18 cell semi-specular low iridescent precision cell II parabolic louver.
Light Source: Two - FO32T8/35K - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: Magnetek B232I120RH Electronic - L.O.B.F. = 88.22

Summary

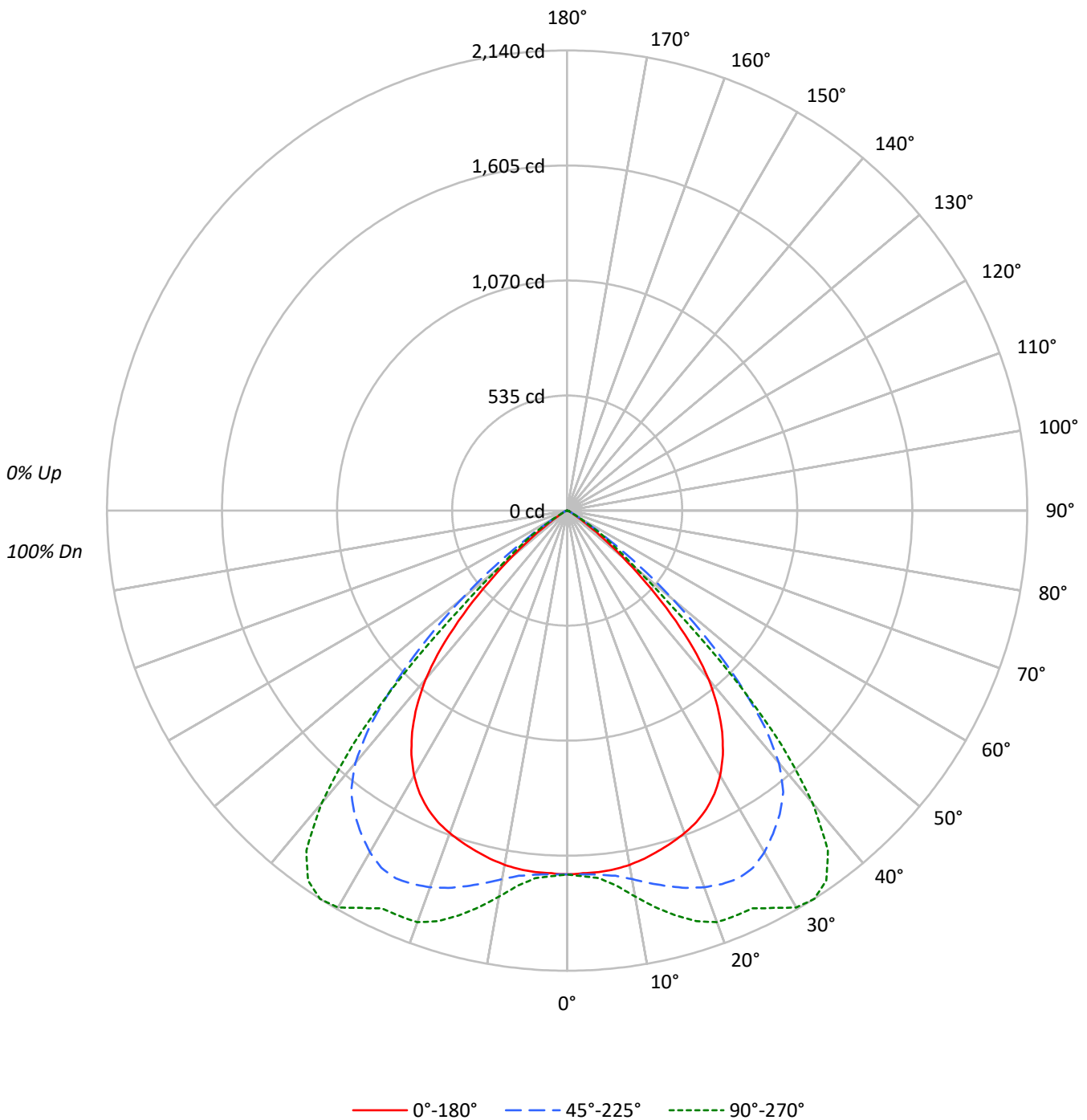
Lumens per Lamp: 2800 (2 lamps)
Luminaire Lumens: 3558.5 lumens
Efficiency: 63.5%
Efficacy: 60.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.64 / 1.39
Luminous Opening: Rectangular (W 1.73' x L: 3.76' x H: 0')
CIE Type: Direct

Input Watts (W): 59
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									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0													
RCR																																					
0	76	76	76	76	74	74	74	74	71	71	71	68	68	68	65	65	65	64						64													
1	71	69	67	66	70	68	66	65	65	64	63	63	62	61	61	60	59						58														
2	67	63	60	57	65	62	59	57	60	58	55	58	56	54	56	55	53						52														
3	62	57	54	51	61	57	53	50	55	52	49	53	51	48	52	50	48						47														
4	58	52	48	45	57	52	48	45	50	47	44	49	46	43	48	45	43						42														
5	54	48	43	40	53	47	43	40	46	42	39	45	42	39	44	41	39						38														
6	51	44	39	36	50	43	39	36	42	38	35	41	38	35	40	37	35						34														
7	47	40	36	32	46	40	35	32	39	35	32	38	34	32	37	34	32						31														
8	44	37	32	29	43	37	32	29	36	32	29	35	32	29	34	31	29						28														
9	42	34	30	27	41	34	30	27	33	29	26	33	29	26	32	29	26						25														
10	39	32	27	24	38	31	27	24	31	27	24	30	27	24	30	26	24						23														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2801	2801	2801
5°	2805	2823	2851
10°	2812	2925	3063
15°	2809	3098	3340
20°	2811	3284	3588
25°	2798	3447	3728
30°	2720	3507	4073
35°	2540	3484	4244
40°	2211	3313	3838
45°	1601	2641	2526
50°	868	1653	1069
55°	329	684	574
60°	116	189	162
65°	71	78	74
70°	48	53	53
75°	32	45	38
80°	29	29	29
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°	163.7	4.6	2.9	0°	1692	1692	1692	1692	1692	
10°-20°	510.7	14.4	9.1	5°	1688	1693	1699	1707	1716	161
20°-30°	847.4	23.8	15.1	15°	1639	1679	1808	1914	1949	463
30°-40°	1053.6	29.6	18.8	25°	1532	1661	1887	2007	2041	703
40°-50°	761.7	21.4	13.6	35°	1257	1462	1724	1973	2100	777
50°-60°	190.1	5.3	3.4	45°	684	850	1128	1188	1079	521
60°-70°	23.2	0.7	0.4	55°	114	122	237	224	199	125
70°-80°	6.9	0.2	0.1	65°	18	20	20	21	19	19
80°-90°	1.2	0.0	0.0	75°	5	6	7	7	6	6
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°	1521.7	42.8	27.2	165°	0	0	0	0	0	0
0°-40°	2575.4	72.4	46.0	175°	0	0	0	0	0	0
0°-60°	3527.2	99.1	63.0	180°	0	0	0	0	0	0
0°-90°	3558.5	100.0	63.5							
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°	3558.5	100.0	63.5							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1692	1692	1692	1692	1692
2.5°	1688	1692	1693	1694	1702
5°	1688	1693	1699	1707	1716
7.5°	1683	1692	1713	1742	1759
10°	1673	1688	1740	1797	1822
12.5°	1658	1683	1775	1856	1888
15°	1639	1679	1808	1914	1949
17.5°	1619	1679	1840	1964	2002
20°	1596	1679	1864	2004	2037
22.5°	1569	1675	1880	2018	2040
25°	1532	1661	1887	2007	2041
27.5°	1485	1637	1873	1999	2083
30°	1423	1599	1835	2019	2131
32.5°	1348	1543	1782	2017	2140
35°	1257	1462	1724	1973	2100
37.5°	1150	1356	1651	1880	1992
40°	1023	1224	1533	1725	1776
42.5°	870	1057	1356	1486	1473
45°	684	850	1128	1188	1079
47.5°	498	621	881	844	664
50°	337	401	642	527	415
52.5°	209	230	420	336	288
55°	114	122	237	224	199
57.5°	59	68	117	137	108
60°	35	41	57	67	49
62.5°	24	28	31	31	25
65°	18	20	20	21	19
67.5°	13	15	15	15	14
70°	10	11	11	11	11
72.5°	7	8	9	9	8
75°	5	6	7	7	6
77.5°	4	4	5	5	4
80°	3	3	3	3	3
82.5°	1	2	2	2	2
85°	1	1	1	1	1
87.5°	0	0	0	0	0
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)