

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: 220p229

Luminaire Tested: **2P2GX-217S34I-EB81**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 220p229
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2P2GX-217S34I-EB81
Description: 2X2 P2GX RECESSED LUMINAIRE WITH 12 CELL SILVER PARABOLIC
LOUVER, 86% PRE-PAINT HOUSING
Light Source: TWO 2' T8 LINEAR FLUORESCENT LAMPS, F17T8 17W - 1310 LUMENS EA
Ballast/Driver: -

Summary

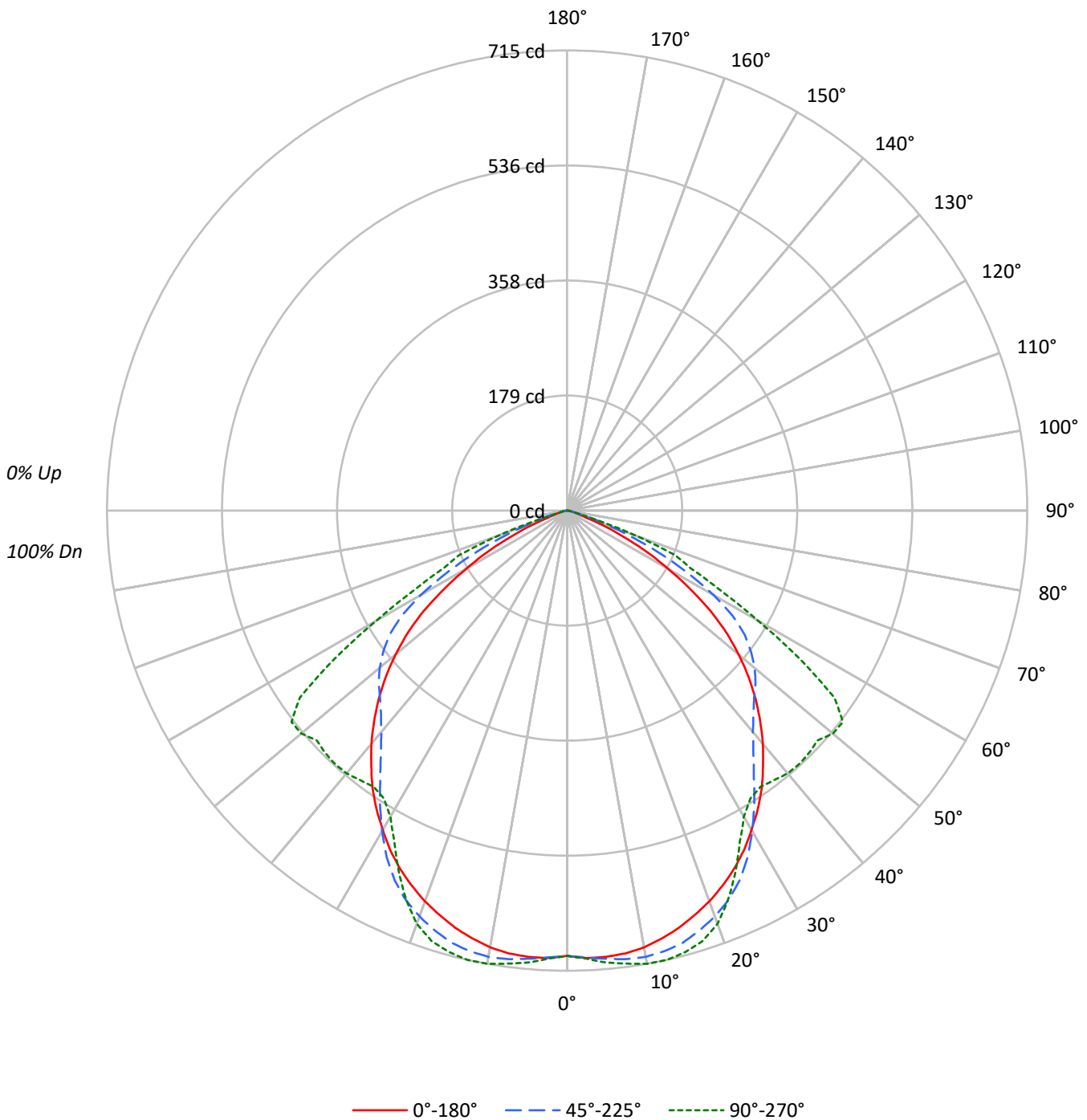
Lumens per Lamp: 1310 (2 lamps)
Luminaire Lumens: 1716.4 lumens
Efficiency: 65.5%
Efficacy: 57.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.19 / 1.3
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')
CIE Type: Direct

Input Watts (W): 30
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									70									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	78	78	78	78	76	76	76	76	73	73	73	70	70	70	67	67	67	66																				
1	72	70	68	65	71	68	66	64	66	64	62	63	62	60	61	60	59	57																				
2	67	62	58	55	65	61	57	54	58	55	53	56	54	52	54	52	51	49																				
3	61	55	50	46	60	54	49	46	52	48	45	50	47	44	49	46	44	42																				
4	56	49	44	40	55	48	43	39	47	42	39	45	41	38	44	40	38	37																				
5	52	44	38	34	50	43	38	34	42	37	34	41	37	33	39	36	33	32																				
6	48	40	34	30	47	39	34	30	38	33	30	37	33	30	36	32	29	28																				
7	44	36	31	27	43	36	30	27	35	30	26	34	29	26	33	29	26	25																				
8	41	33	28	24	40	32	27	24	32	27	24	31	27	24	30	26	23	22																				
9	39	30	25	22	38	30	25	21	29	25	21	28	24	21	28	24	21	20																				
10	36	28	23	20	35	28	23	20	27	23	19	26	22	19	26	22	19	18																				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2028	2028	2028
5°	2047	2056	2074
10°	2050	2095	2127
15°	2035	2108	2154
20°	2014	2092	2130
25°	1985	2050	2001
30°	1939	1945	1857
35°	1885	1810	1874
40°	1809	1717	2039
45°	1716	1703	2204
50°	1586	1732	2457
55°	1389	1722	2590
60°	1067	1541	2010
65°	686	1144	1463
70°	257	608	959
75°	147	192	147
80°	84	118	101
85°	67	101	67



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	66.9	3.9	2.6	0°	692	692	692	692	692	
10°-20°	195.1	11.4	7.4	5°	696	696	699	702	705	66
20°-30°	286.6	16.7	10.9	15°	671	678	695	706	710	189
30°-40°	325.3	19.0	12.4	25°	614	624	634	626	619	282
40°-50°	344.0	20.0	13.1	35°	527	532	506	504	524	329
50°-60°	312.8	18.2	11.9	45°	414	414	411	485	532	318
60°-70°	157.2	9.2	6.0	55°	272	277	337	439	507	240
70°-80°	25.7	1.5	1.0	65°	99	115	165	186	211	100
80°-90°	2.8	0.2	0.1	75°	13	15	17	15	13	15
90°-100°	0.0	0.0	0.0	85°	2	2	3	3	2	2
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	
110°-120°	0.0	0.0	0.0							
120°-130°	0.0	0.0	0.0							
130°-140°	0.0	0.0	0.0							
140°-150°	0.0	0.0	0.0							
150°-160°	0.0	0.0	0.0							
160°-170°	0.0	0.0	0.0							
170°-180°	0.0	0.0	0.0							
0°-30°	548.5	32.0	20.9							
0°-40°	873.9	50.9	33.4							
0°-60°	1530.6	89.2	58.4							
0°-90°	1716.4	100.0	65.5							
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°	1716.4	100.0	65.5							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	692	692	692	692	692
2.5°	696	695	695	696	697
5°	696	696	699	702	705
7.5°	694	696	703	708	710
10°	689	693	704	712	715
12.5°	681	687	701	711	715
15°	671	678	695	706	710
17.5°	659	668	684	698	701
20°	646	655	671	682	683
22.5°	631	641	655	658	654
25°	614	624	634	626	619
27.5°	595	604	607	588	581
30°	573	582	575	552	549
32.5°	551	558	541	523	530
35°	527	532	506	504	524
37.5°	500	504	475	495	528
40°	473	475	449	494	533
42.5°	444	445	428	491	534
45°	414	414	411	485	532
47.5°	382	381	397	474	528
50°	348	348	380	465	539
52.5°	312	314	360	462	540
55°	272	277	337	439	507
57.5°	226	237	305	390	428
60°	182	195	263	318	343
62.5°	140	155	213	248	269
65°	99	115	165	186	211
67.5°	60	76	114	140	182
70°	30	42	71	99	112
72.5°	20	23	39	48	39
75°	13	15	17	15	13
77.5°	8	10	11	10	9
80°	5	6	7	6	6
82.5°	3	4	4	4	4
85°	2	2	3	3	2
87.5°	1	1	1	1	1
90°	0	0	0	0	0

(END OF REPORT)