

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: 181P103

Luminaire Tested: **2GC-SS-332H8224**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 181P103
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GC-SS-332H8224
Description: 2 X 4 Silver Steel Recessed Convertible Body Luminaire
with a Clear Plastic Hemispherical-Prismatic H8224 Lens.
Light Source: Three - FO32/735 - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: Advance REL-3P32-TP Electronic - L.O.B.F. = 89.4

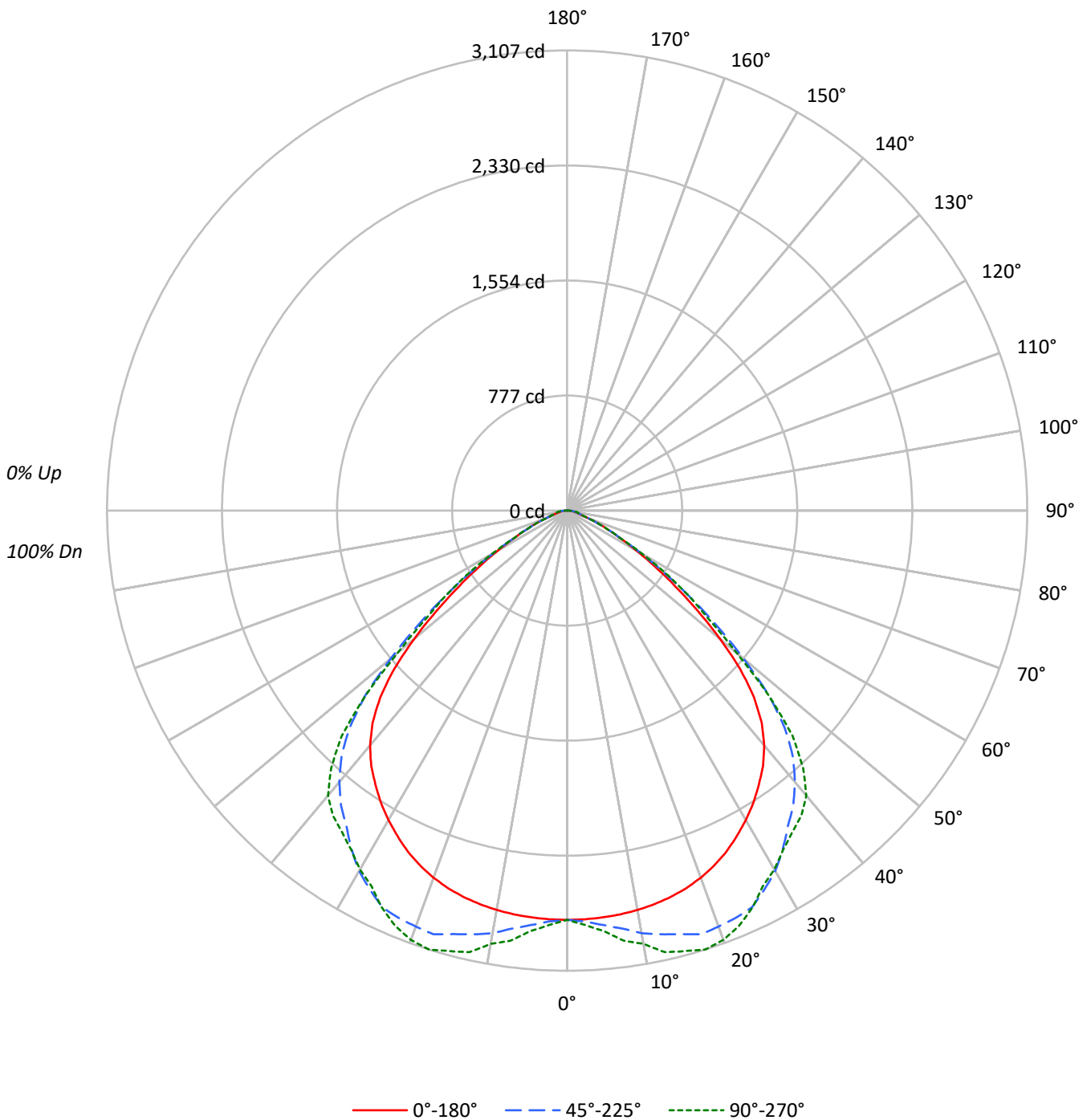
Summary

Lumens per Lamp: 2800 (3 lamps)
Luminaire Lumens: 6903.4 lumens
Efficiency: 82.2%
Efficacy: 80.3 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.46 / 1.45
Luminous Opening: Rectangular (W 1.79' x L: 3.81' x H: 0')
CIE Type: Direct

Input Watts (W): 86
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	98	98	98	98	96	96	96	96	91	91	91		87	87	87		84	84	84	82
1	91	88	85	83	89	86	84	82	83	81	79		80	78	77		77	76	74	73
2	85	79	74	70	83	77	73	70	75	71	68		72	69	67		70	67	65	64
3	78	71	65	61	76	70	64	60	67	63	59		65	61	58		63	60	57	56
4	72	64	57	53	70	63	57	52	61	56	52		59	54	51		57	53	50	49
5	67	58	51	46	65	57	51	46	55	50	45		53	49	45		52	48	45	43
6	62	52	46	41	61	51	45	41	50	44	40		49	44	40		47	43	40	38
7	58	48	41	36	56	47	41	36	46	40	36		45	40	36		44	39	36	34
8	54	44	37	33	53	43	37	33	42	36	32		41	36	32		40	35	32	31
9	50	40	34	29	49	40	34	29	39	33	29		38	33	29		37	32	29	28
10	47	37	31	27	46	37	31	27	36	30	27		35	30	27		34	30	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4361	4361	4361
5°	4368	4450	4515
10°	4388	4643	4760
15°	4413	4837	5031
20°	4431	5020	5180
25°	4427	5146	5153
30°	4398	5121	5099
35°	4349	5008	5106
40°	4265	4930	5176
45°	3982	4643	4803
50°	3312	3823	3654
55°	2452	2752	2741
60°	1698	1806	1834
65°	1132	1120	1132
70°	697	711	678
75°	482	531	555
80°	445	545	627
85°	579	652	833



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	22.5°	45°	67.5°	90°	Flux
0°-10°	270.1	3.9	3.2	0°	2763	2763	2763	2763	
10°-20°	829.3	12.0	9.9	5°	2757	2771	2809	2832	263
20°-30°	1314.3	19.0	15.6	15°	2701	2813	2960	3058	763
30°-40°	1603.7	23.2	19.1	25°	2542	2761	2955	2962	1170
40°-50°	1540.8	22.3	18.3	35°	2257	2535	2599	2648	1411
50°-60°	888.3	12.9	10.6	45°	1784	1961	2080	2158	1352
60°-70°	320.1	4.6	3.8	55°	891	978	1000	993	810
70°-80°	99.1	1.4	1.2	65°	303	296	300	312	314
80°-90°	37.6	0.5	0.4	75°	79	84	87	92	91
90°-100°	0.0	0.0	0.0	85°	32	38	36	37	29
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	3
110°-120°	0.0	0.0	0.0	95°	0	0	0	0	0
120°-130°	0.0	0.0	0.0	105°	0	0	0	0	0
130°-140°	0.0	0.0	0.0	115°	0	0	0	0	0
140°-150°	0.0	0.0	0.0	125°	0	0	0	0	0
150°-160°	0.0	0.0	0.0	135°	0	0	0	0	0
160°-170°	0.0	0.0	0.0	145°	0	0	0	0	0
170°-180°	0.0	0.0	0.0	155°	0	0	0	0	0
0°-30°	2413.7	35.0	28.7	165°	0	0	0	0	0
0°-40°	4017.4	58.2	47.8	175°	0	0	0	0	0
0°-60°	6446.6	93.4	76.7	180°	0	0	0	0	0
0°-90°	6903.4	100.0	82.2						
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°	6903.4	100.0	82.2						



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2763	2763	2763	2763	2763
2.5°	2762	2761	2777	2791	2801
5°	2757	2771	2809	2832	2850
7.5°	2750	2785	2846	2903	2929
10°	2738	2796	2897	2950	2970
12.5°	2722	2805	2931	3014	3054
15°	2701	2813	2960	3058	3079
17.5°	2673	2817	3000	3071	3107
20°	2638	2811	2989	3079	3084
22.5°	2594	2789	2976	3026	3034
25°	2542	2761	2955	2962	2959
27.5°	2479	2734	2884	2888	2860
30°	2413	2688	2810	2801	2798
32.5°	2340	2616	2710	2726	2715
35°	2257	2535	2599	2648	2650
37.5°	2173	2452	2508	2584	2597
40°	2070	2324	2393	2504	2512
42.5°	1944	2165	2256	2364	2358
45°	1784	1961	2080	2158	2152
47.5°	1585	1726	1847	1885	1844
50°	1349	1466	1557	1546	1488
52.5°	1107	1208	1267	1231	1206
55°	891	978	1000	993	996
57.5°	700	765	765	789	791
60°	538	569	572	594	581
62.5°	406	407	416	428	410
65°	303	296	300	312	303
67.5°	222	214	217	227	220
70°	151	145	154	163	147
72.5°	105	106	112	119	111
75°	79	84	87	92	91
77.5°	62	71	72	73	78
80°	49	60	60	60	69
82.5°	40	51	49	48	60
85°	32	38	36	37	46
87.5°	21	20	20	23	24
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)