

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P412364

Luminaire Tested: **22PD-25-PB1-L840**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412364
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-14)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22PD-25-PB1-L840
Description: 2500 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

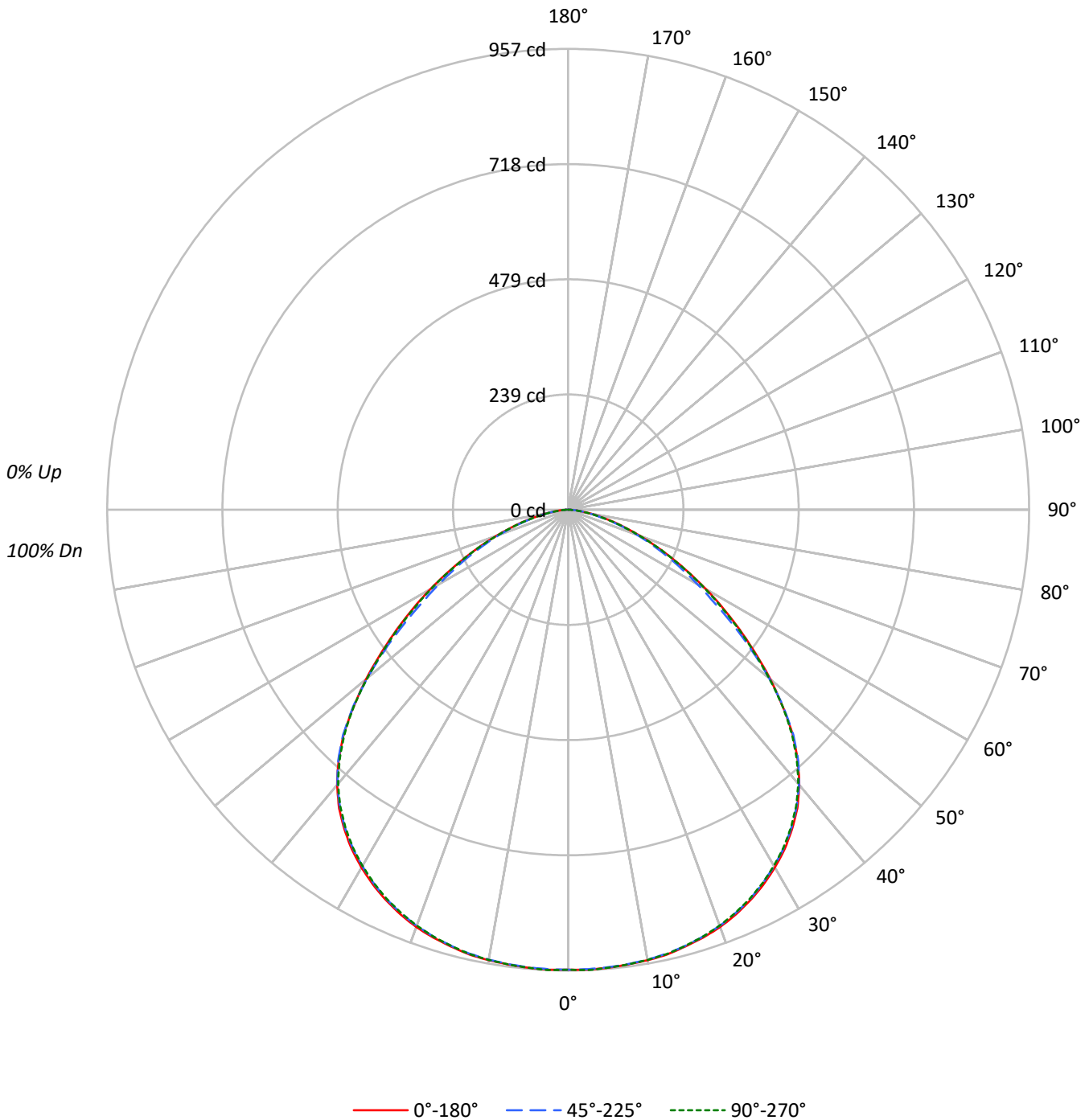
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2508.0 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.32 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
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	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88					86				
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	76					73				
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65					63				
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	66	61	56					54				
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49					47				
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44					42				
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39					37				
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35					33				
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32					30				
10	55	42	34	29	54	41	34	29	41	34	29	40	33	29	39	33	29					27				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2571	2571	2571
5°	2579	2576	2580
10°	2596	2593	2594
15°	2617	2613	2613
20°	2641	2633	2632
25°	2657	2650	2647
30°	2666	2655	2654
35°	2661	2653	2648
40°	2621	2618	2610
45°	2506	2514	2495
50°	2294	2282	2279
55°	2038	1967	2025
60°	1777	1669	1766
65°	1507	1426	1499
70°	1245	1194	1234
75°	1007	943	967
80°	728	705	700
85°	475	475	457



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.9	3.6
10°-20°	265.1	10.6
20°-30°	411.4	16.4
30°-40°	504.5	20.1
40°-50°	504.3	20.1
50°-60°	382.0	15.2
60°-70°	229.1	9.1
70°-80°	100.9	4.0
80°-90°	20.0	0.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	767.4	30.6
0°-40°	1271.8	50.7
0°-60°	2158.1	86.0
0°-90°	2508.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2508.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	955	955	955	955	955	
5°	955	954	954	954	955	91
15°	939	938	938	937	938	266
25°	895	893	892	891	892	413
35°	810	810	808	807	806	506
45°	658	659	660	659	656	504
55°	434	425	419	425	432	390
65°	237	228	224	228	235	237
75°	97	95	91	92	93	103
85°	15	16	15	15	15	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	955.3	955.3	955.3	955.3	955.3
2.5°	956.2	954.7	955.0	955.0	956.8
5°	954.7	953.5	953.8	953.5	955.0
7.5°	952.6	951.5	951.7	951.5	952.3
10°	950.0	948.8	948.8	948.2	949.4
12.5°	946.4	945.0	944.4	944.1	945.0
15°	939.3	938.5	937.9	937.3	937.9
17.5°	931.7	930.2	929.6	928.4	929.6
20°	922.2	920.1	919.6	918.7	919.0
22.5°	909.8	908.0	907.1	905.7	906.3
25°	895.0	893.3	892.4	890.9	891.5
27.5°	877.9	876.7	874.7	873.5	873.8
30°	858.1	856.9	854.6	854.0	854.0
32.5°	836.3	834.8	832.7	832.1	831.8
35°	810.0	809.7	807.6	807.0	806.1
37.5°	781.3	780.7	778.4	777.8	776.9
40°	746.2	745.6	745.3	744.1	742.9
42.5°	705.4	706.3	706.9	704.5	702.1
45°	658.4	659.3	660.5	658.7	655.5
47.5°	603.5	607.0	605.3	606.4	603.2
50°	548.0	548.0	545.0	546.2	544.4
52.5°	489.8	485.0	481.5	483.9	486.2
55°	434.5	425.1	419.2	424.8	431.6
57.5°	381.6	370.4	359.5	368.4	376.6
60°	330.2	317.2	310.2	316.7	328.2
62.5°	281.5	272.1	265.0	270.0	279.7
65°	236.6	228.3	223.9	227.7	235.4
67.5°	195.5	189.9	185.5	188.8	194.7
70°	158.3	156.9	151.8	153.3	156.9
72.5°	124.4	124.1	119.6	120.8	122.9
75°	96.9	94.8	90.7	92.2	93.0
77.5°	68.5	69.4	65.6	66.5	66.5
80°	47.0	48.4	45.5	44.9	45.2
82.5°	29.8	29.8	29.5	29.2	28.4
85°	15.4	16.0	15.4	14.8	14.8
87.5°	5.9	5.9	5.9	5.6	5.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)