

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: P412436

Luminaire Tested: **22PD-65-PB1-L840**

Issue Date: 9/15/2020



**Test Information**

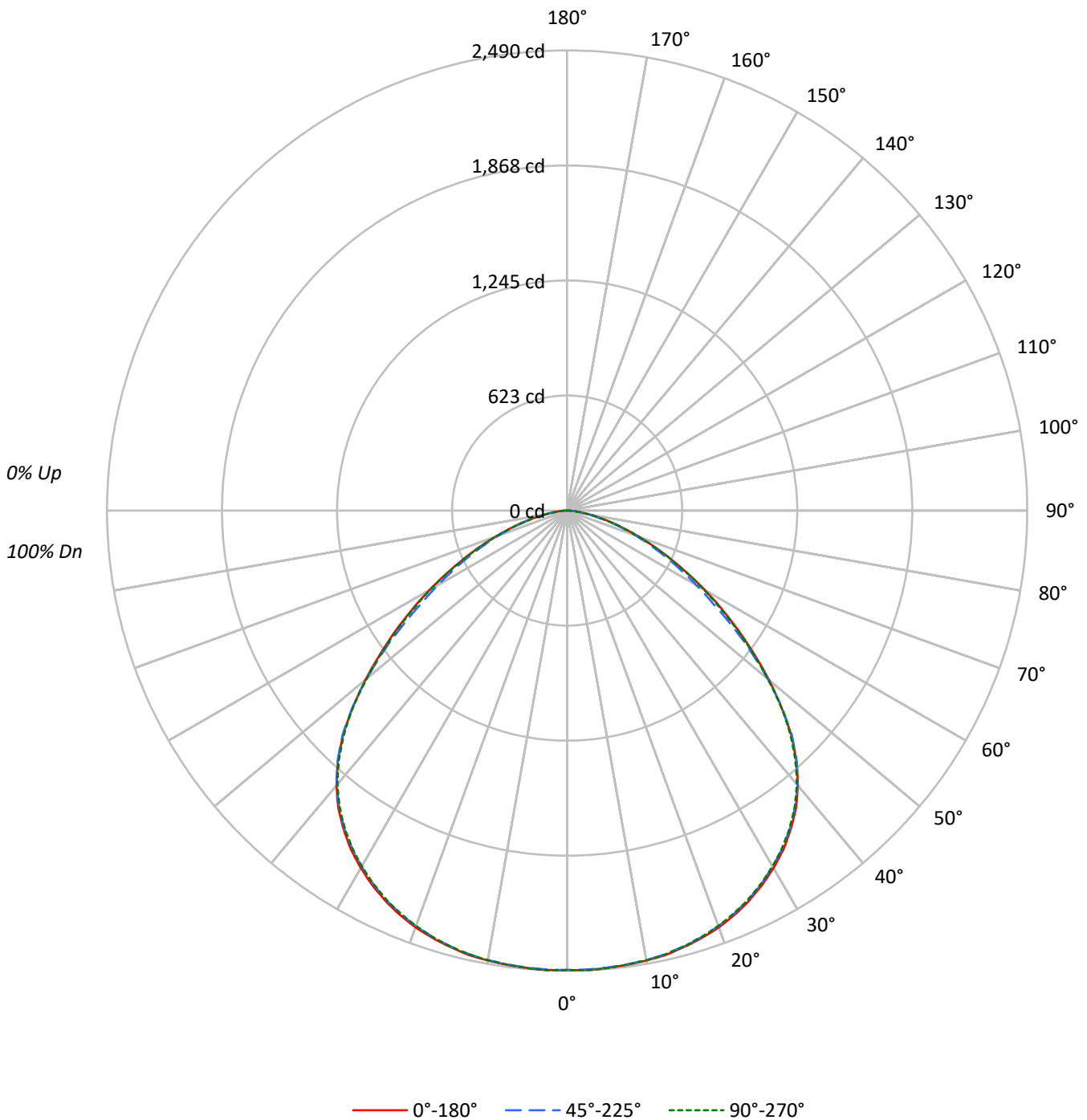
Test Method: LM-79-08  
Report Number: P412436  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-65-PB1-L840  
Description: 6500 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: 6527.0 lumens  
Efficiency: N/A  
Efficacy: 112.7 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): 57.9  
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	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°	6690	6690	6690
5°	6712	6705	6714
10°	6756	6747	6751
15°	6810	6800	6800
20°	6873	6853	6849
25°	6916	6896	6889
30°	6939	6911	6906
35°	6925	6905	6892
40°	6822	6813	6792
45°	6521	6541	6492
50°	5970	5938	5931
55°	5305	5118	5269
60°	4626	4344	4597
65°	3921	3710	3901
70°	3242	3109	3212
75°	2621	2454	2518
80°	1894	1835	1822
85°	1235	1235	1186



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	236.6	3.6
10°-20°	689.9	10.6
20°-30°	1070.5	16.4
30°-40°	1312.8	20.1
40°-50°	1312.3	20.1
50°-60°	994.1	15.2
60°-70°	596.2	9.1
70°-80°	262.5	4.0
80°-90°	52.1	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°	1997.0	30.6
0°-40°	3309.8	50.7
0°-60°	5616.2	86.0
0°-90°	6527.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6527.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2486	2486	2486	2486	2486	
5°	2485	2482	2482	2482	2485	237
15°	2445	2442	2441	2439	2441	691
25°	2329	2325	2322	2318	2320	1074
35°	2108	2107	2102	2100	2098	1316
45°	1714	1716	1719	1714	1706	1312
55°	1131	1106	1091	1106	1123	1014
65°	616	594	583	593	613	616
75°	252	247	236	240	242	269
85°	40	42	40	38	38	53
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2486.1	2486.1	2486.1	2486.1	2486.1
2.5°	2488.4	2484.6	2485.4	2485.4	2490.0
5°	2484.6	2481.5	2482.3	2481.5	2485.4
7.5°	2479.2	2476.1	2476.9	2476.1	2478.4
10°	2472.3	2469.2	2469.2	2467.7	2470.8
12.5°	2463.1	2459.2	2457.7	2456.9	2459.2
15°	2444.6	2442.3	2440.8	2439.2	2440.8
17.5°	2424.6	2420.8	2419.2	2416.2	2419.2
20°	2400.0	2394.6	2393.1	2390.8	2391.6
22.5°	2367.7	2363.1	2360.8	2357.0	2358.5
25°	2329.3	2324.7	2322.4	2318.5	2320.1
27.5°	2284.7	2281.6	2276.3	2273.2	2274.0
30°	2233.2	2230.1	2224.0	2222.4	2222.4
32.5°	2176.3	2172.5	2167.1	2165.6	2164.8
35°	2107.9	2107.1	2101.8	2100.2	2097.9
37.5°	2033.3	2031.8	2025.6	2024.1	2021.8
40°	1941.9	1940.3	1939.5	1936.5	1933.4
42.5°	1835.8	1838.1	1839.6	1833.5	1827.3
45°	1713.5	1715.8	1718.9	1714.3	1705.8
47.5°	1570.5	1579.8	1575.2	1578.2	1569.8
50°	1426.0	1426.0	1418.3	1421.4	1416.8
52.5°	1274.6	1262.3	1253.1	1259.2	1265.4
55°	1130.8	1106.2	1090.9	1105.5	1123.1
57.5°	993.2	964.0	935.6	958.6	980.2
60°	859.5	825.6	807.2	824.1	854.1
62.5°	732.6	708.0	689.6	702.6	728.0
65°	615.8	594.2	582.7	592.7	612.7
67.5°	508.9	494.3	482.8	491.2	506.6
70°	412.0	408.2	395.1	399.0	408.2
72.5°	323.6	322.9	311.3	314.4	319.8
75°	252.1	246.8	236.0	239.8	242.2
77.5°	178.3	180.7	170.7	173.0	173.0
80°	122.2	126.1	118.4	116.8	117.6
82.5°	77.6	77.6	76.9	76.1	73.8
85°	40.0	41.5	40.0	38.4	38.4
87.5°	15.4	15.4	15.4	14.6	13.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)