

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: P412553

Luminaire Tested: **24PD-65-PB1-L840**

Issue Date: 9/15/2020



**Test Information**

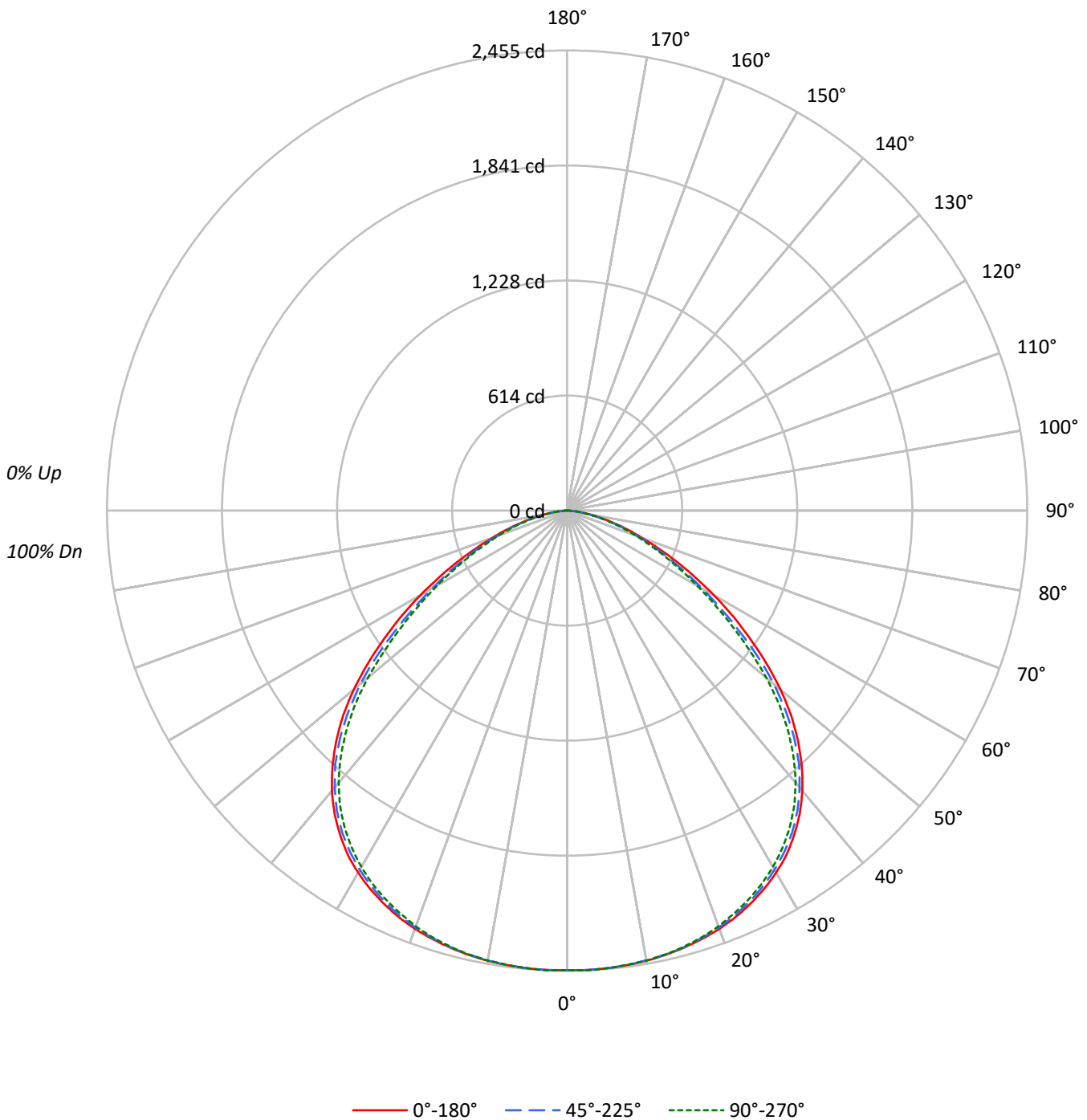
Test Method: LM-79-08  
Report Number: P412553  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-45)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-65-PB1-L840  
Description: 6500 LUMEN 2X4 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: 6525.0 lumens  
Efficiency: N/A  
Efficacy: 131.3 lumens/watt  
Spacing Criteria (0/90/45): 1.34 / 1.32 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 49.7  
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	75	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	72	60	51	45	70	59	51	45	57	50	44	55	49	44	54	48	43	41
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	39	33	29	27

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3299	3299	3299
5°	3310	3310	3310
10°	3333	3329	3330
15°	3362	3358	3355
20°	3400	3389	3380
25°	3436	3419	3399
30°	3466	3437	3411
35°	3470	3440	3397
40°	3429	3389	3332
45°	3318	3257	3173
50°	3111	3015	2905
55°	2796	2630	2522
60°	2435	2241	2155
65°	2048	1895	1812
70°	1670	1585	1521
75°	1338	1291	1237
80°	1027	947	921
85°	642	622	622



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	233.5	3.6
10°-20°	681.4	10.4
20°-30°	1061.6	16.3
30°-40°	1306.0	20.0
40°-50°	1311.8	20.1
50°-60°	1011.0	15.5
60°-70°	600.2	9.2
70°-80°	267.2	4.1
80°-90°	52.2	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°	1976.5	30.3
0°-40°	3282.5	50.3
0°-60°	5605.4	85.9
0°-90°	6525.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6525.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2452	2452	2452	2452	2452	
5°	2451	2452	2451	2448	2451	234
15°	2414	2414	2411	2407	2409	683
25°	2314	2314	2303	2292	2290	1067
35°	2112	2109	2094	2076	2068	1319
45°	1744	1739	1712	1683	1668	1338
55°	1192	1169	1121	1087	1075	1066
65°	643	616	595	573	569	643
75°	257	252	248	240	238	279
85°	42	40	40	38	40	55
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2452.2	2452.2	2452.2	2452.2	2452.2
2.5°	2453.5	2452.8	2452.8	2450.2	2455.4
5°	2450.9	2451.5	2450.9	2448.3	2450.9
7.5°	2445.7	2446.3	2445.0	2442.4	2445.0
10°	2439.2	2439.2	2436.6	2435.3	2437.2
12.5°	2428.1	2428.1	2425.5	2423.6	2425.5
15°	2413.8	2413.8	2410.6	2406.7	2408.6
17.5°	2396.3	2396.3	2391.1	2385.9	2387.2
20°	2374.8	2374.2	2367.0	2359.9	2360.5
22.5°	2347.5	2346.9	2337.8	2329.3	2326.7
25°	2314.4	2313.7	2302.7	2292.3	2289.7
27.5°	2276.0	2273.4	2261.1	2249.4	2246.8
30°	2230.6	2228.6	2212.4	2200.7	2195.5
32.5°	2177.9	2172.7	2157.8	2143.5	2136.3
35°	2112.3	2109.0	2094.1	2076.5	2068.1
37.5°	2038.2	2034.9	2018.7	1999.2	1989.4
40°	1952.4	1949.8	1929.6	1909.5	1897.1
42.5°	1853.6	1851.6	1830.2	1802.3	1789.3
45°	1743.8	1739.2	1711.9	1683.3	1667.7
47.5°	1621.6	1613.8	1580.6	1553.3	1536.4
50°	1486.4	1476.0	1440.2	1405.1	1387.6
52.5°	1340.2	1322.0	1284.9	1244.6	1227.7
55°	1192.0	1169.2	1121.1	1087.3	1075.0
57.5°	1047.0	1013.9	968.4	944.3	932.0
60°	904.7	868.3	832.6	809.2	800.7
62.5°	768.9	738.3	707.8	684.4	679.2
65°	643.4	615.5	595.3	572.6	569.3
67.5°	526.4	513.4	495.2	475.7	473.1
70°	424.4	419.2	403.0	391.3	386.7
72.5°	338.6	333.4	321.7	313.3	312.0
75°	257.4	252.2	248.3	239.8	237.9
77.5°	183.3	183.9	180.7	176.1	177.4
80°	132.6	124.8	122.2	119.6	118.9
82.5°	81.2	76.7	74.7	74.1	75.4
85°	41.6	39.6	40.3	38.3	40.3
87.5°	14.3	14.3	14.9	14.3	15.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)