

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: P412544

Luminaire Tested: **24PD-60-PB1-L840**

Issue Date: 9/15/2020



**Test Information**

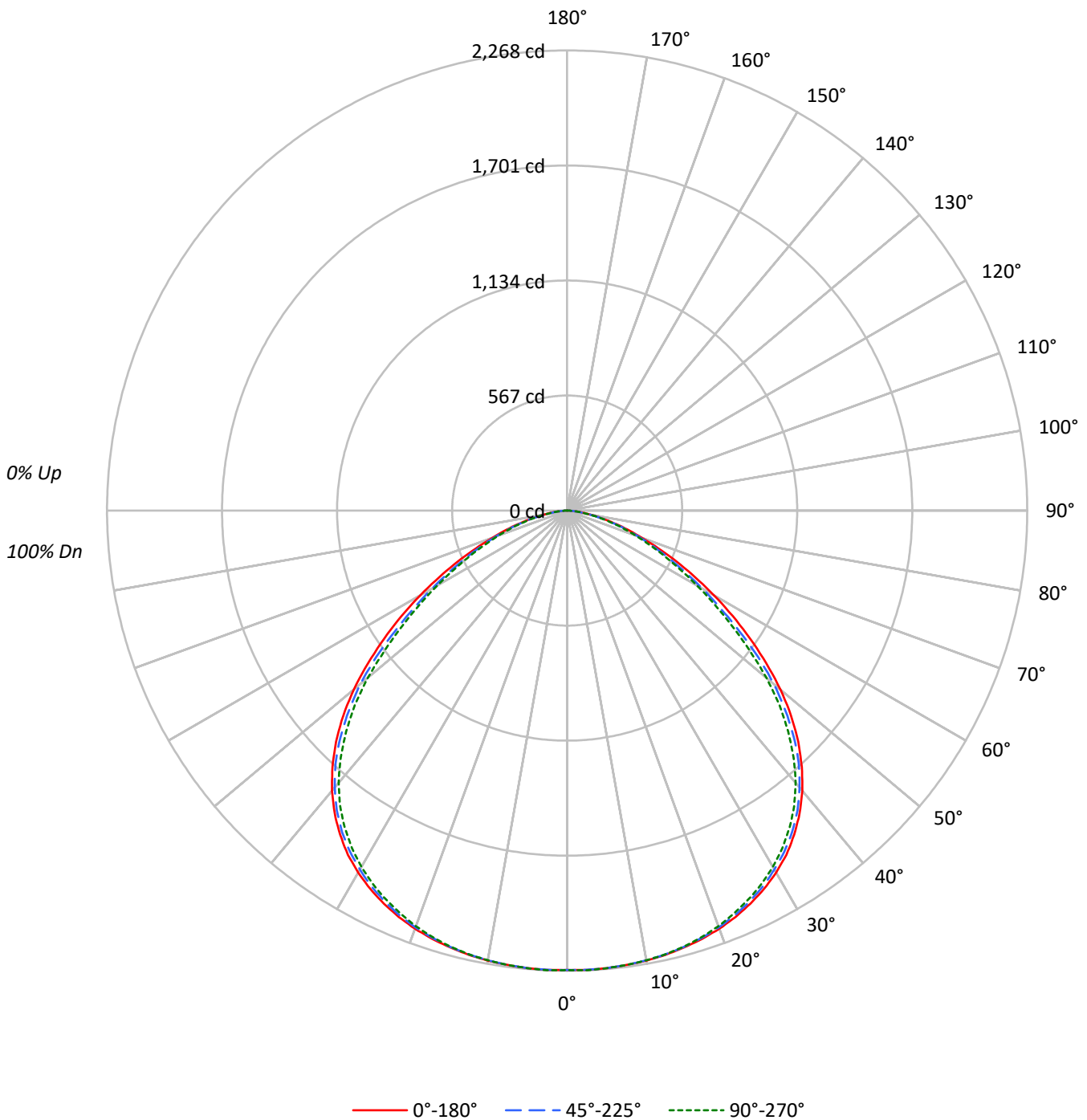
Test Method: LM-79-08  
Report Number: P412544  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-45)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-60-PB1-L840  
Description: 6000 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: 6026.0 lumens  
Efficiency: N/A  
Efficacy: 132.7 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): 45.4  
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	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°	3047	3047	3047
5°	3057	3057	3057
10°	3078	3074	3075
15°	3105	3101	3098
20°	3140	3130	3121
25°	3173	3157	3139
30°	3200	3174	3150
35°	3204	3177	3137
40°	3167	3130	3077
45°	3064	3008	2931
50°	2873	2784	2682
55°	2582	2429	2329
60°	2248	2069	1990
65°	1892	1750	1674
70°	1542	1464	1405
75°	1236	1192	1142
80°	948	874	851
85°	593	574	574



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	215.6	3.6
10°-20°	629.3	10.4
20°-30°	980.4	16.3
30°-40°	1206.1	20.0
40°-50°	1211.5	20.1
50°-60°	933.7	15.5
60°-70°	554.3	9.2
70°-80°	246.8	4.1
80°-90°	48.2	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°	1825.4	30.3
0°-40°	3031.5	50.3
0°-60°	5176.7	85.9
0°-90°	6026.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6026.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2265	2265	2265	2265	2265	
5°	2263	2264	2263	2261	2263	216
15°	2229	2229	2226	2223	2224	630
25°	2137	2137	2127	2117	2115	986
35°	1951	1948	1934	1918	1910	1218
45°	1610	1606	1581	1555	1540	1236
55°	1101	1080	1035	1004	993	984
65°	594	568	550	529	526	594
75°	238	233	229	222	220	257
85°	38	37	37	35	37	51
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2264.6	2264.6	2264.6	2264.6	2264.6
2.5°	2265.8	2265.2	2265.2	2262.8	2267.6
5°	2263.4	2264.0	2263.4	2261.0	2263.4
7.5°	2258.6	2259.2	2258.0	2255.6	2258.0
10°	2252.6	2252.6	2250.2	2249.0	2250.8
12.5°	2242.4	2242.4	2240.0	2238.2	2240.0
15°	2229.2	2229.2	2226.2	2222.6	2224.4
17.5°	2213.0	2213.0	2208.2	2203.4	2204.6
20°	2193.2	2192.6	2186.0	2179.4	2180.0
22.5°	2168.0	2167.4	2159.0	2151.2	2148.8
25°	2137.4	2136.8	2126.6	2117.0	2114.6
27.5°	2102.0	2099.6	2088.2	2077.4	2075.0
30°	2060.0	2058.2	2043.2	2032.4	2027.6
32.5°	2011.4	2006.6	1992.7	1979.5	1972.9
35°	1950.7	1947.7	1933.9	1917.7	1909.9
37.5°	1882.3	1879.3	1864.3	1846.3	1837.3
40°	1803.1	1800.7	1782.1	1763.5	1752.1
42.5°	1711.8	1710.0	1690.2	1664.4	1652.4
45°	1610.4	1606.2	1581.0	1554.6	1540.2
47.5°	1497.6	1490.4	1459.7	1434.5	1418.9
50°	1372.7	1363.1	1330.1	1297.7	1281.5
52.5°	1237.7	1220.9	1186.6	1149.4	1133.8
55°	1100.8	1079.8	1035.4	1004.2	992.8
57.5°	967.0	936.4	894.3	872.1	860.7
60°	835.5	801.9	768.9	747.3	739.5
62.5°	710.1	681.9	653.6	632.0	627.2
65°	594.2	568.4	549.8	528.8	525.8
67.5°	486.2	474.2	457.4	439.4	437.0
70°	391.9	387.1	372.1	361.3	357.1
72.5°	312.7	307.9	297.1	289.3	288.1
75°	237.7	232.9	229.3	221.5	219.7
77.5°	169.3	169.9	166.9	162.7	163.9
80°	122.4	115.2	112.8	110.4	109.8
82.5°	75.0	70.8	69.0	68.4	69.6
85°	38.4	36.6	37.2	35.4	37.2
87.5°	13.2	13.2	13.8	13.2	14.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)