

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: P412552

Luminaire Tested: **24PD-65-PB1-L835**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412552
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-L835
Description: 6500 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

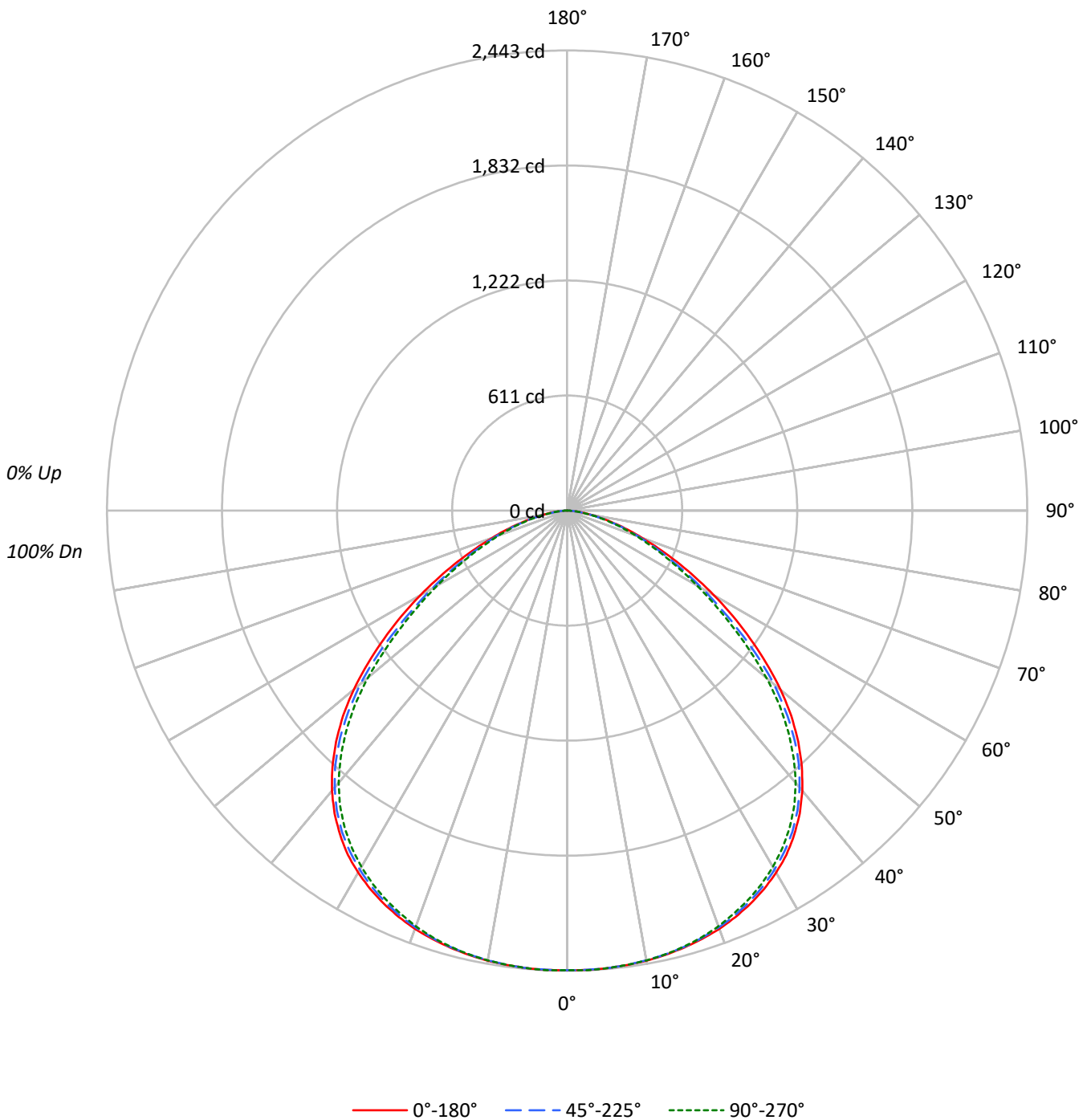
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6492.0 lumens
Efficiency: N/A
Efficacy: 130.6 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	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					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63					63			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	72	60	51	45	70	59	51	45	57	50	44	55	49	44	54	48	43	41					41			
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37					37			
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33					33			
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30					30			
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	39	33	29	27					27			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3283	3283	3283
5°	3294	3294	3294
10°	3316	3312	3313
15°	3345	3341	3338
20°	3383	3372	3363
25°	3419	3401	3382
30°	3448	3420	3394
35°	3452	3422	3380
40°	3412	3372	3315
45°	3301	3241	3157
50°	3096	3000	2890
55°	2782	2617	2509
60°	2422	2229	2144
65°	2038	1886	1804
70°	1661	1577	1514
75°	1331	1284	1231
80°	1022	942	917
85°	639	619	619



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.3	3.6
10°-20°	678.0	10.4
20°-30°	1056.3	16.3
30°-40°	1299.4	20.0
40°-50°	1305.2	20.1
50°-60°	1005.9	15.5
60°-70°	597.2	9.2
70°-80°	265.9	4.1
80°-90°	51.9	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°	1966.5	30.3
0°-40°	3265.9	50.3
0°-60°	5577.0	85.9
0°-90°	6492.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6492.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2440	2440	2440	2440	2440	
5°	2438	2439	2438	2436	2438	232
15°	2402	2402	2398	2394	2396	679
25°	2303	2302	2291	2281	2278	1062
35°	2102	2098	2084	2066	2058	1312
45°	1735	1730	1703	1675	1659	1332
55°	1186	1163	1116	1082	1070	1061
65°	640	612	592	570	566	640
75°	256	251	247	239	237	277
85°	41	39	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°	2439.8	2439.8	2439.8	2439.8	2439.8
2.5°	2441.1	2440.4	2440.4	2437.8	2443.0
5°	2438.5	2439.1	2438.5	2435.9	2438.5
7.5°	2433.3	2434.0	2432.7	2430.1	2432.7
10°	2426.8	2426.8	2424.3	2423.0	2424.9
12.5°	2415.9	2415.9	2413.3	2411.3	2413.3
15°	2401.6	2401.6	2398.4	2394.5	2396.5
17.5°	2384.2	2384.2	2379.0	2373.8	2375.1
20°	2362.8	2362.2	2355.1	2348.0	2348.6
22.5°	2335.7	2335.0	2326.0	2317.6	2315.0
25°	2302.7	2302.0	2291.0	2280.7	2278.1
27.5°	2264.5	2262.0	2249.7	2238.0	2235.4
30°	2219.3	2217.3	2201.2	2189.5	2184.4
32.5°	2166.9	2161.7	2146.8	2132.6	2125.5
35°	2101.6	2098.4	2083.5	2066.0	2057.6
37.5°	2027.9	2024.6	2008.5	1989.1	1979.4
40°	1942.5	1939.9	1919.9	1899.8	1887.5
42.5°	1844.2	1842.3	1820.9	1793.1	1780.2
45°	1734.9	1730.4	1703.3	1674.8	1659.3
47.5°	1613.4	1605.6	1572.6	1545.5	1528.7
50°	1478.9	1468.5	1433.0	1398.0	1380.6
52.5°	1333.4	1315.3	1278.4	1238.3	1221.5
55°	1185.9	1163.3	1115.5	1081.8	1069.5
57.5°	1041.7	1008.8	963.5	939.6	927.3
60°	900.1	863.9	828.3	805.1	796.7
62.5°	765.0	734.6	704.2	680.9	675.7
65°	640.2	612.4	592.3	569.7	566.5
67.5°	523.8	510.8	492.7	473.3	470.8
70°	422.3	417.1	400.9	389.3	384.8
72.5°	336.9	331.7	320.1	311.7	310.4
75°	256.1	250.9	247.0	238.6	236.7
77.5°	182.4	183.0	179.8	175.2	176.5
80°	131.9	124.2	121.6	119.0	118.3
82.5°	80.8	76.3	74.4	73.7	75.0
85°	41.4	39.4	40.1	38.2	40.1
87.5°	14.2	14.2	14.9	14.2	15.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)