

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: P412591

Luminaire Tested: **24PD-85-PB1-L927**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412591
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-85-PB1-L927
Description: 8500 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 2700 CCT LEDS
Light Source: -
Ballast/Driver: -

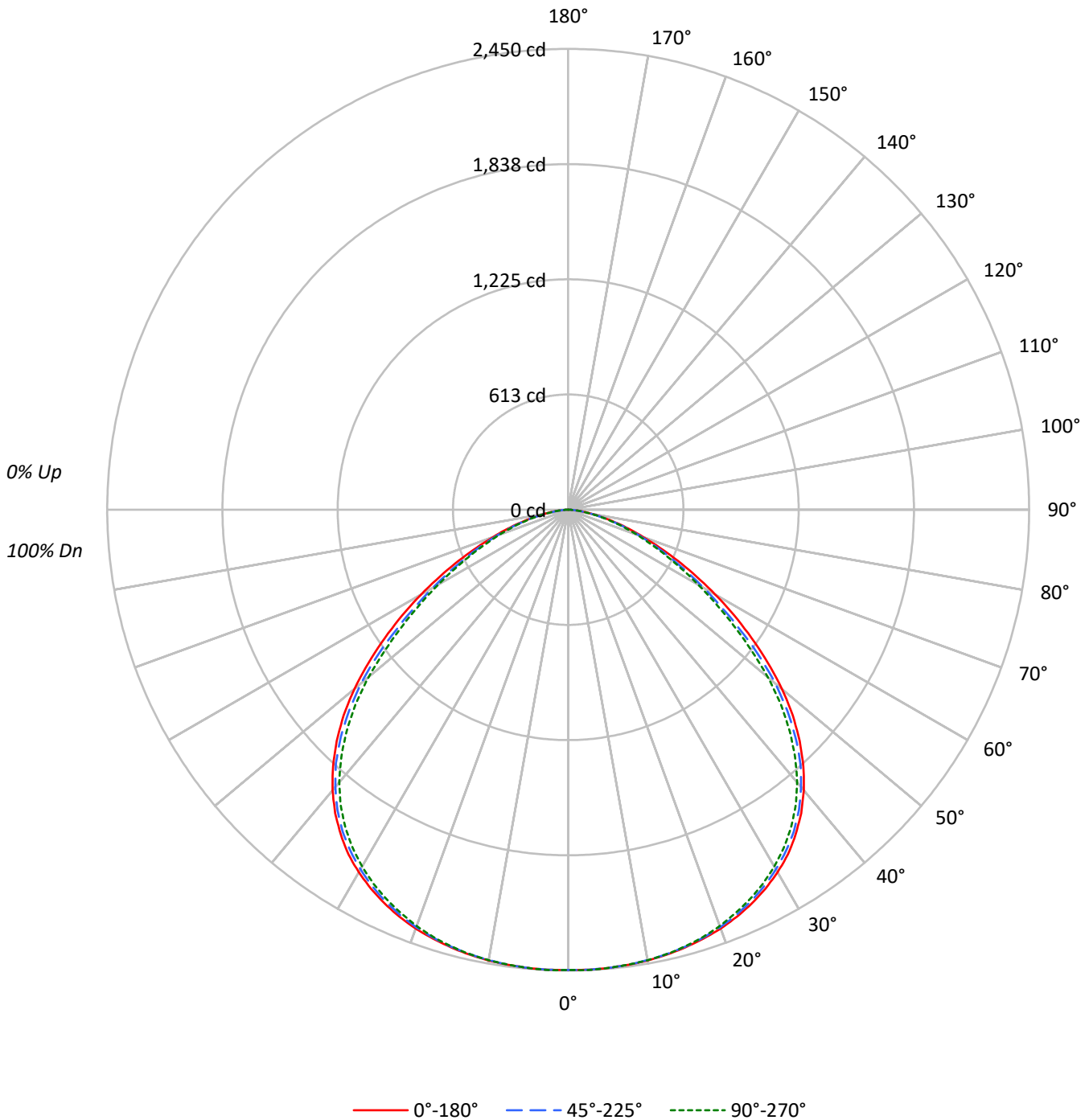
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6511.0 lumens
Efficiency: N/A
Efficacy: 100.9 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): 64.5
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

TEST NUMBER: P412591
CATALOG NUMBER: 24PD-85-PB1-L927

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°	3292	3292	3292
5°	3303	3303	3303
10°	3325	3322	3323
15°	3355	3351	3348
20°	3393	3382	3373
25°	3428	3411	3392
30°	3458	3430	3404
35°	3462	3432	3390
40°	3422	3382	3325
45°	3311	3250	3166
50°	3105	3008	2898
55°	2790	2624	2516
60°	2429	2236	2150
65°	2044	1891	1809
70°	1666	1582	1518
75°	1335	1288	1234
80°	1025	945	920
85°	641	621	621



TEST NUMBER: P412591

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.0	3.6
10°-20°	680.0	10.4
20°-30°	1059.3	16.3
30°-40°	1303.2	20.0
40°-50°	1309.0	20.1
50°-60°	1008.9	15.5
60°-70°	598.9	9.2
70°-80°	266.7	4.1
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°	1972.3	30.3
0°-40°	3275.5	50.3
0°-60°	5593.3	85.9
0°-90°	6511.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6511.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2447	2447	2447	2447	2447	
5°	2446	2446	2446	2443	2446	233
15°	2409	2409	2405	2402	2404	681
25°	2309	2309	2298	2287	2285	1065
35°	2108	2104	2090	2072	2064	1316
45°	1740	1736	1708	1680	1664	1336
55°	1189	1167	1119	1085	1073	1064
65°	642	614	594	571	568	642
75°	257	252	248	239	237	278
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°	2446.9	2446.9	2446.9	2446.9	2446.9
2.5°	2448.2	2447.6	2447.6	2445.0	2450.2
5°	2445.6	2446.3	2445.6	2443.0	2445.6
7.5°	2440.4	2441.1	2439.8	2437.2	2439.8
10°	2433.9	2433.9	2431.4	2430.1	2432.0
12.5°	2422.9	2422.9	2420.3	2418.4	2420.3
15°	2408.7	2408.7	2405.4	2401.5	2403.5
17.5°	2391.1	2391.1	2386.0	2380.8	2382.1
20°	2369.7	2369.1	2362.0	2354.8	2355.5
22.5°	2342.5	2341.9	2332.8	2324.3	2321.8
25°	2309.4	2308.8	2297.8	2287.4	2284.8
27.5°	2271.2	2268.6	2256.2	2244.6	2242.0
30°	2225.8	2223.8	2207.6	2195.9	2190.7
32.5°	2173.2	2168.0	2153.1	2138.9	2131.7
35°	2107.7	2104.5	2089.6	2072.1	2063.6
37.5°	2033.8	2030.6	2014.3	1994.9	1985.2
40°	1948.2	1945.6	1925.5	1905.4	1893.1
42.5°	1849.6	1847.7	1826.3	1798.4	1785.4
45°	1740.0	1735.5	1708.2	1679.7	1664.1
47.5°	1618.1	1610.3	1577.2	1550.0	1533.1
50°	1483.2	1472.8	1437.2	1402.1	1384.6
52.5°	1337.3	1319.1	1282.2	1241.9	1225.1
55°	1189.4	1166.7	1118.7	1085.0	1072.7
57.5°	1044.8	1011.7	966.3	942.3	930.0
60°	902.8	866.4	830.8	807.4	799.0
62.5°	767.2	736.7	706.3	682.9	677.7
65°	642.0	614.2	594.1	571.4	568.1
67.5°	525.3	512.3	494.2	474.7	472.1
70°	423.5	418.3	402.1	390.4	385.9
72.5°	337.9	332.7	321.0	312.6	311.3
75°	256.8	251.6	247.7	239.3	237.4
77.5°	182.9	183.5	180.3	175.8	177.0
80°	132.3	124.5	121.9	119.3	118.7
82.5°	81.1	76.5	74.6	73.9	75.2
85°	41.5	39.6	40.2	38.3	40.2
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)