

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: P413272

Luminaire Tested: **24PD-85-PC3-L835**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413272
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-46)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24PD-85-PC3-L835
Description: 8500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

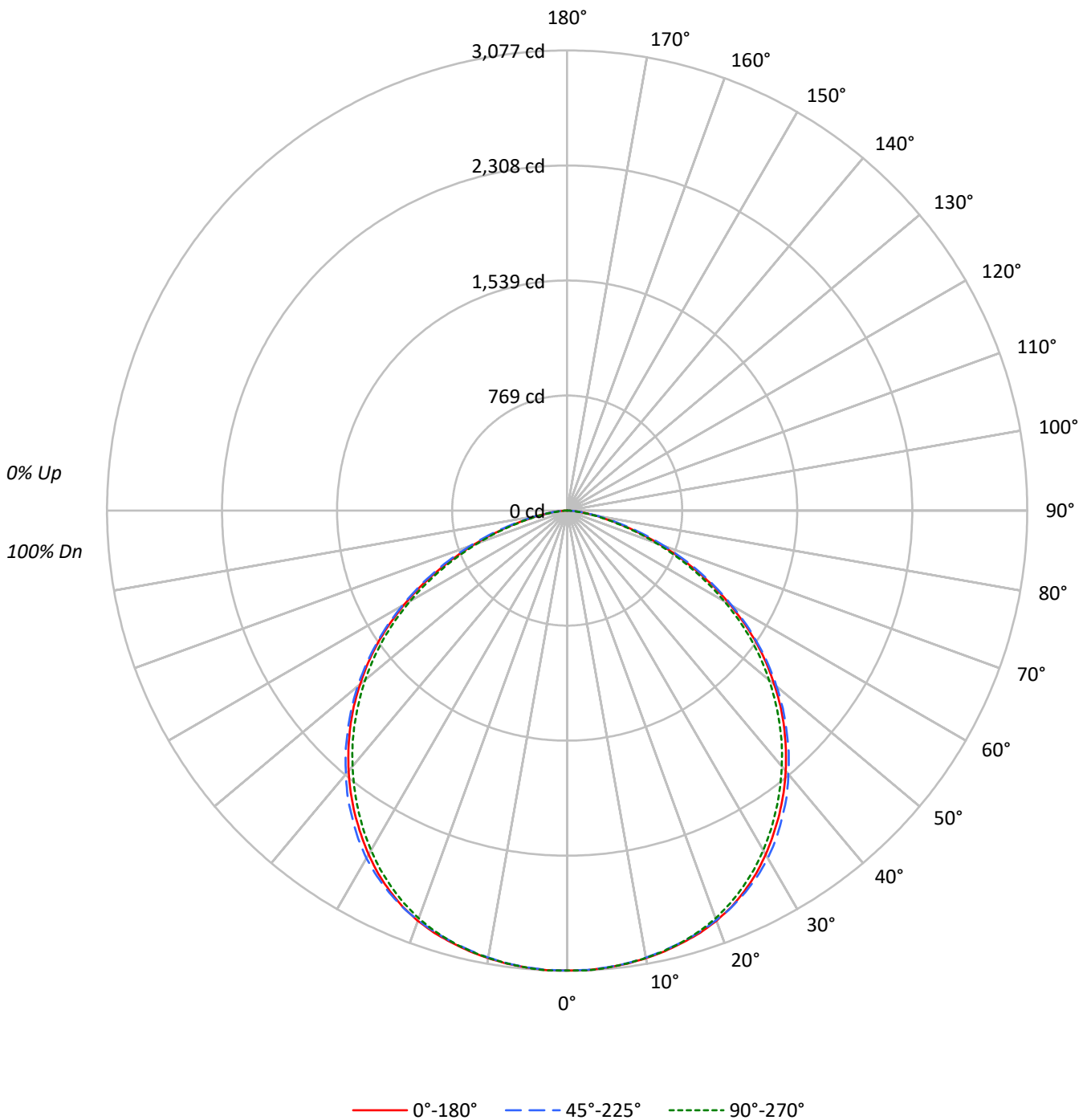
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8407.0 lumens
Efficiency: N/A
Efficacy: 130.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.38
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: P413272
CATALOG NUMBER: 24PD-85-PC3-L835

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	109	105	101	97	107	103	99	96	99	96	93		95	92	90		91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77		83	79	75		80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65		74	69	64		71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56		66	60	55		64	59	54	52
5	77	64	56	49	75	63	55	49	61	54	48		59	53	48		57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42		54	47	42		52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38		49	42	37		47	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34		45	38	33		44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30		41	35	30		40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27		38	32	27		37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4138	4138	4138
5°	4144	4141	4145
10°	4152	4146	4150
15°	4166	4157	4159
20°	4179	4173	4155
25°	4168	4183	4125
30°	4126	4170	4074
35°	4065	4117	4004
40°	3994	4042	3922
45°	3904	3946	3823
50°	3783	3825	3690
55°	3628	3659	3520
60°	3386	3425	3269
65°	3052	3128	2932
70°	2591	2705	2487
75°	2007	2153	1914
80°	1492	1558	1354
85°	920	986	855



TEST NUMBER: P413272

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.8	3.5
10°-20°	843.5	10.0
20°-30°	1291.7	15.4
30°-40°	1554.0	18.5
40°-50°	1584.6	18.8
50°-60°	1373.7	16.3
60°-70°	952.4	11.3
70°-80°	435.0	5.2
80°-90°	80.3	1.0
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°	2427.0	28.9
0°-40°	3980.9	47.4
0°-60°	6939.3	82.5
0°-90°	8407.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8407.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3076	3076	3076	3076	3076	
5°	3068	3068	3066	3065	3069	292
15°	2990	2990	2984	2982	2985	845
25°	2807	2815	2818	2793	2778	1293
35°	2475	2502	2507	2474	2438	1548
45°	2052	2077	2074	2046	2009	1581
55°	1546	1556	1560	1522	1500	1378
65°	958	979	982	949	921	948
75°	386	407	414	400	368	422
85°	60	61	64	60	55	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3075.7	3075.7	3075.7	3075.7	3075.7
2.5°	3075.7	3075.7	3074.0	3072.3	3077.4
5°	3068.0	3068.0	3066.3	3064.6	3068.9
7.5°	3056.1	3055.3	3053.6	3051.9	3054.4
10°	3039.1	3038.2	3034.8	3034.0	3037.4
12.5°	3017.8	3016.9	3011.8	3011.8	3014.4
15°	2990.5	2989.7	2984.5	2982.0	2985.4
17.5°	2959.8	2959.0	2953.0	2946.2	2947.9
20°	2918.9	2918.9	2914.7	2904.5	2901.9
22.5°	2869.5	2872.1	2872.1	2852.5	2844.8
25°	2807.3	2815.0	2817.6	2792.8	2778.4
27.5°	2736.6	2748.5	2755.4	2723.8	2705.1
30°	2655.7	2675.3	2683.8	2649.7	2622.4
32.5°	2567.1	2591.8	2602.0	2568.8	2533.8
35°	2475.1	2501.5	2506.6	2474.2	2437.6
37.5°	2377.1	2404.3	2411.2	2382.2	2337.0
40°	2274.0	2301.2	2301.2	2277.4	2233.1
42.5°	2164.9	2193.9	2193.0	2164.1	2124.0
45°	2051.6	2077.2	2073.8	2045.6	2009.0
47.5°	1934.9	1951.1	1955.3	1922.1	1887.2
50°	1807.1	1823.3	1827.5	1790.0	1762.8
52.5°	1681.0	1691.2	1697.2	1653.7	1634.1
55°	1546.4	1555.7	1560.0	1521.7	1500.4
57.5°	1404.1	1416.0	1421.1	1382.8	1358.9
60°	1258.4	1271.2	1272.9	1237.1	1214.9
62.5°	1110.2	1127.2	1130.6	1094.8	1068.4
65°	958.5	978.9	982.4	949.1	921.0
67.5°	806.8	834.1	835.0	807.7	774.5
70°	658.6	688.4	687.6	664.6	632.2
72.5°	517.2	544.4	550.4	529.1	497.6
75°	386.0	407.3	414.1	400.4	368.1
77.5°	274.3	293.9	299.9	287.1	263.3
80°	192.6	193.4	201.1	190.8	174.7
82.5°	119.3	117.6	120.1	115.9	106.5
85°	59.6	61.3	63.9	60.5	55.4
87.5°	20.4	21.3	23.0	23.0	20.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)