

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: P413274

Luminaire Tested: **24PD-85-PC3-L850**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413274
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-L850
Description: 8500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

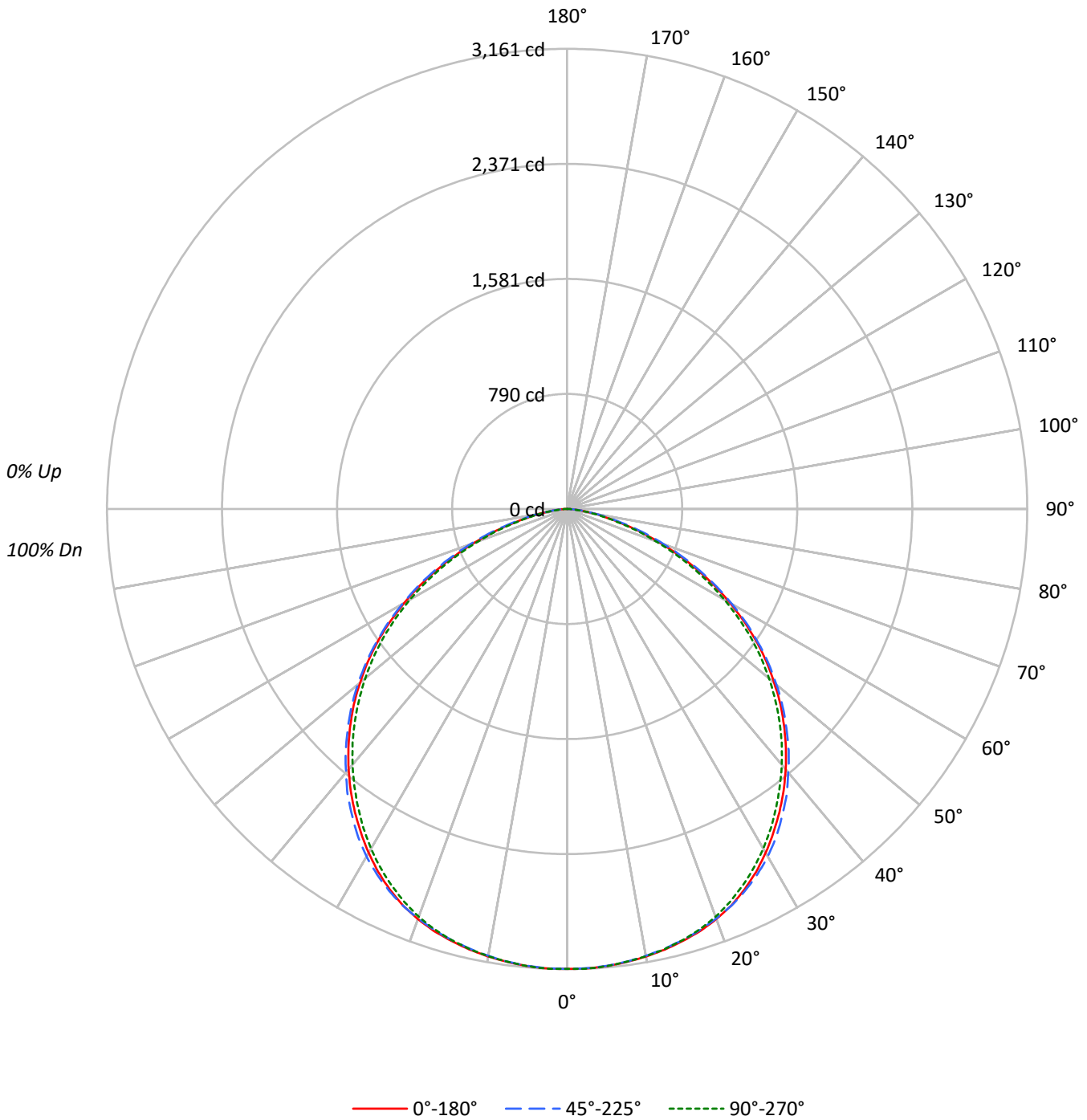
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8635.0 lumens
Efficiency: N/A
Efficacy: 133.9 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 (A_{in}): 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	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°	4251	4251	4251
5°	4256	4254	4257
10°	4265	4259	4262
15°	4279	4270	4271
20°	4293	4286	4268
25°	4281	4296	4237
30°	4238	4283	4185
35°	4176	4229	4112
40°	4102	4152	4029
45°	4010	4053	3926
50°	3885	3929	3790
55°	3726	3759	3615
60°	3478	3518	3358
65°	3134	3212	3012
70°	2661	2778	2554
75°	2061	2211	1965
80°	1533	1600	1390
85°	946	1013	878



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.7	3.5
10°-20°	866.3	10.0
20°-30°	1326.8	15.4
30°-40°	1596.1	18.5
40°-50°	1627.6	18.8
50°-60°	1411.0	16.3
60°-70°	978.2	11.3
70°-80°	446.8	5.2
80°-90°	82.5	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°	2492.8	28.9
0°-40°	4088.9	47.4
0°-60°	7127.5	82.5
0°-90°	8635.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8635.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3159	3159	3159	3159	3159	
5°	3151	3151	3150	3148	3152	300
15°	3072	3071	3066	3063	3066	868
25°	2884	2891	2894	2869	2854	1328
35°	2542	2569	2575	2541	2504	1590
45°	2107	2134	2130	2101	2064	1624
55°	1588	1598	1602	1563	1541	1415
65°	984	1006	1009	975	946	973
75°	396	418	425	411	378	434
85°	61	63	66	62	57	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3159.1	3159.1	3159.1	3159.1	3159.1
2.5°	3159.1	3159.1	3157.4	3155.6	3160.9
5°	3151.2	3151.2	3149.5	3147.7	3152.1
7.5°	3139.0	3138.1	3136.4	3134.6	3137.2
10°	3121.5	3120.6	3117.1	3116.2	3119.7
12.5°	3099.6	3098.7	3093.5	3093.5	3096.1
15°	3071.6	3070.7	3065.5	3062.9	3066.4
17.5°	3040.1	3039.2	3033.1	3026.1	3027.9
20°	2998.1	2998.1	2993.7	2983.2	2980.6
22.5°	2947.3	2950.0	2950.0	2929.8	2922.0
25°	2883.5	2891.3	2894.0	2868.6	2853.7
27.5°	2810.8	2823.1	2830.1	2797.7	2778.5
30°	2727.7	2747.8	2756.6	2721.6	2693.6
32.5°	2636.7	2662.1	2672.6	2638.4	2602.6
35°	2542.2	2569.3	2574.6	2541.3	2503.7
37.5°	2441.5	2469.5	2476.5	2446.8	2400.4
40°	2335.7	2363.7	2363.7	2339.2	2293.6
42.5°	2223.6	2253.4	2252.5	2222.8	2181.6
45°	2107.2	2133.5	2130.0	2101.1	2063.5
47.5°	1987.4	2004.0	2008.4	1974.2	1938.4
50°	1856.1	1872.7	1877.1	1838.6	1810.6
52.5°	1726.6	1737.1	1743.2	1698.6	1678.4
55°	1588.3	1597.9	1602.3	1562.9	1541.1
57.5°	1442.2	1454.4	1459.7	1420.3	1395.8
60°	1292.5	1305.7	1307.4	1270.7	1247.9
62.5°	1140.3	1157.8	1161.3	1124.5	1097.4
65°	984.5	1005.5	1009.0	974.9	946.0
67.5°	828.7	856.7	857.6	829.6	795.5
70°	676.5	707.1	706.2	682.6	649.3
72.5°	531.2	559.2	565.3	543.4	511.1
75°	396.4	418.3	425.3	411.3	378.0
77.5°	281.8	301.9	308.0	294.9	270.4
80°	197.8	198.6	206.5	196.0	179.4
82.5°	122.5	120.8	123.4	119.0	109.4
85°	61.3	63.0	65.6	62.1	56.9
87.5°	21.0	21.9	23.6	23.6	21.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)