

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: P413273

Luminaire Tested: **24PD-85-PC3-L840**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413273
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-L840
Description: 8500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

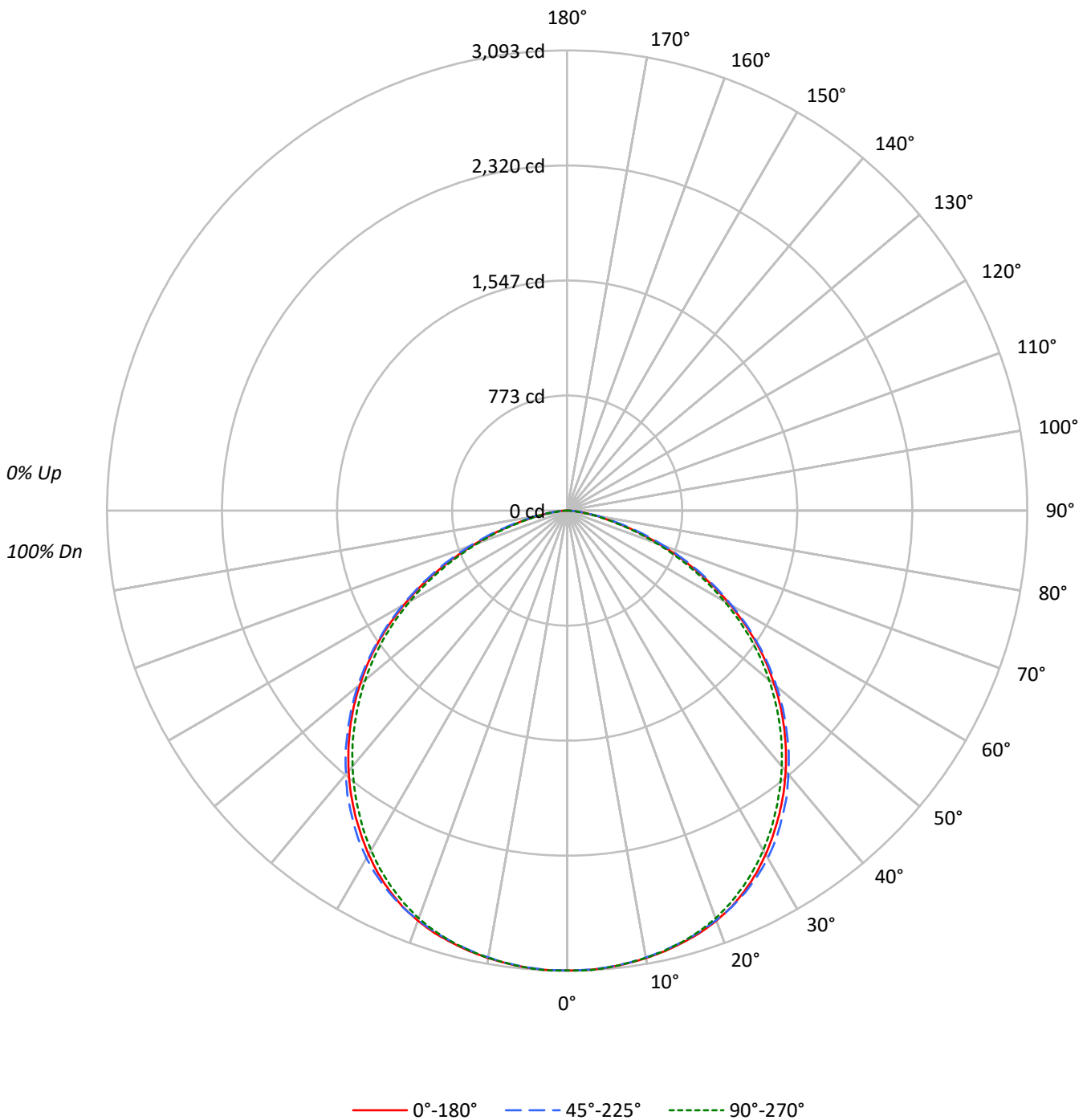
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8450.0 lumens
Efficiency: N/A
Efficacy: 131.0 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

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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°	4159	4159	4159
5°	4165	4163	4166
10°	4173	4167	4171
15°	4187	4179	4180
20°	4201	4195	4176
25°	4189	4204	4146
30°	4147	4191	4095
35°	4086	4138	4024
40°	4014	4063	3942
45°	3924	3966	3842
50°	3802	3845	3709
55°	3646	3678	3537
60°	3404	3443	3286
65°	3067	3144	2947
70°	2604	2719	2500
75°	2017	2164	1923
80°	1499	1566	1361
85°	925	991	860



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.3	3.5
10°-20°	847.8	10.0
20°-30°	1298.3	15.4
30°-40°	1561.9	18.5
40°-50°	1592.7	18.8
50°-60°	1380.8	16.3
60°-70°	957.3	11.3
70°-80°	437.2	5.2
80°-90°	80.8	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°	2439.4	28.9
0°-40°	4001.3	47.4
0°-60°	6974.8	82.5
0°-90°	8450.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8450.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3091	3091	3091	3091	3091	
5°	3084	3084	3082	3080	3085	293
15°	3006	3005	3000	2997	3001	849
25°	2822	2829	2832	2807	2793	1299
35°	2488	2514	2519	2487	2450	1556
45°	2062	2088	2084	2056	2019	1589
55°	1554	1564	1568	1530	1508	1385
65°	963	984	987	954	926	952
75°	388	409	416	402	370	424
85°	60	62	64	61	56	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3091.4	3091.4	3091.4	3091.4	3091.4
2.5°	3091.4	3091.4	3089.7	3088.0	3093.2
5°	3083.7	3083.7	3082.0	3080.3	3084.6
7.5°	3071.7	3070.9	3069.2	3067.5	3070.0
10°	3054.6	3053.8	3050.3	3049.5	3052.9
12.5°	3033.2	3032.4	3027.2	3027.2	3029.8
15°	3005.8	3004.9	2999.8	2997.2	3000.7
17.5°	2975.0	2974.1	2968.1	2961.3	2963.0
20°	2933.9	2933.9	2929.6	2919.3	2916.7
22.5°	2884.2	2886.8	2886.8	2867.1	2859.4
25°	2821.7	2829.4	2832.0	2807.1	2792.6
27.5°	2750.6	2762.6	2769.5	2737.8	2718.9
30°	2669.3	2689.0	2697.5	2663.3	2635.9
32.5°	2580.2	2605.0	2615.3	2581.9	2546.8
35°	2487.7	2514.3	2519.4	2486.9	2450.0
37.5°	2389.2	2416.6	2423.5	2394.4	2349.0
40°	2285.6	2313.0	2313.0	2289.0	2244.5
42.5°	2176.0	2205.1	2204.3	2175.1	2134.9
45°	2062.1	2087.8	2084.4	2056.1	2019.3
47.5°	1944.8	1961.1	1965.3	1931.9	1896.8
50°	1816.3	1832.6	1836.9	1799.2	1771.8
52.5°	1689.6	1699.9	1705.9	1662.2	1642.5
55°	1554.3	1563.7	1568.0	1529.5	1508.0
57.5°	1411.3	1423.3	1428.4	1389.9	1365.9
60°	1264.8	1277.7	1279.4	1243.4	1221.2
62.5°	1115.8	1133.0	1136.4	1100.4	1073.9
65°	963.4	984.0	987.4	954.0	925.7
67.5°	811.0	838.4	839.2	811.8	778.4
70°	662.0	691.9	691.1	668.0	635.4
72.5°	519.8	547.2	553.2	531.8	500.1
75°	387.9	409.3	416.2	402.5	369.9
77.5°	275.7	295.4	301.4	288.6	264.6
80°	193.5	194.4	202.1	191.8	175.6
82.5°	119.9	118.2	120.7	116.5	107.0
85°	59.9	61.7	64.2	60.8	55.7
87.5°	20.6	21.4	23.1	23.1	20.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)