

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: P413255

Luminaire Tested: **24PD-75-PC3-L840**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413255
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-75-PC3-L840
Description: 7500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

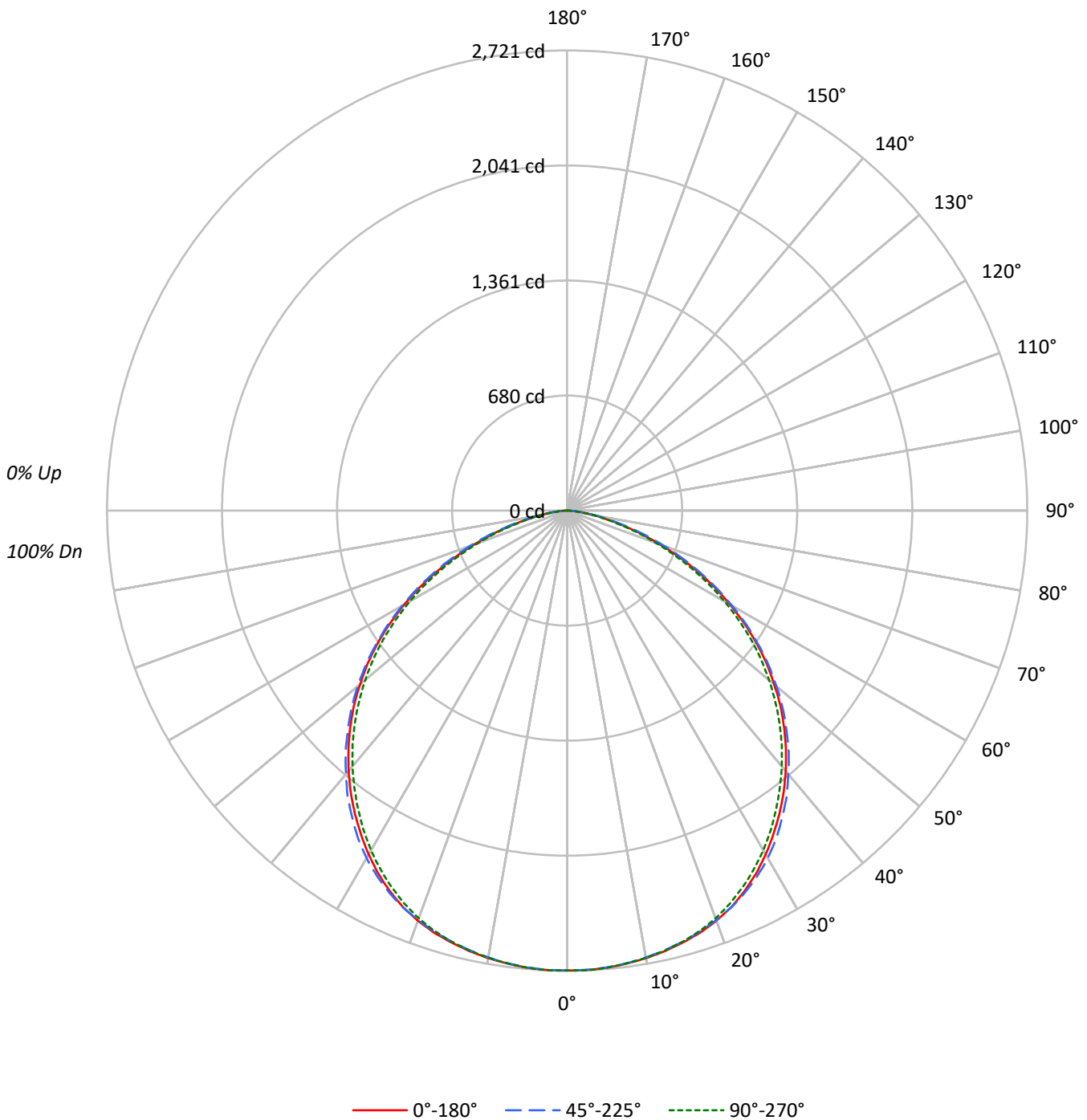
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7433.0 lumens
Efficiency: N/A
Efficacy: 132.0 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): 56.3
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	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°	3659	3659	3659
5°	3664	3662	3665
10°	3671	3666	3669
15°	3683	3676	3677
20°	3695	3690	3674
25°	3685	3698	3647
30°	3648	3687	3602
35°	3594	3640	3540
40°	3531	3574	3468
45°	3452	3489	3380
50°	3344	3382	3262
55°	3207	3236	3112
60°	2994	3028	2891
65°	2698	2765	2592
70°	2291	2391	2199
75°	1774	1903	1692
80°	1319	1378	1196
85°	814	872	756



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.0	3.5
10°-20°	745.8	10.0
20°-30°	1142.1	15.4
30°-40°	1373.9	18.5
40°-50°	1401.0	18.8
50°-60°	1214.6	16.3
60°-70°	842.1	11.3
70°-80°	384.6	5.2
80°-90°	71.0	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°	2145.8	28.9
0°-40°	3519.7	47.4
0°-60°	6135.3	82.5
0°-90°	7433.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7433.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2719	2719	2719	2719	2719	
5°	2713	2713	2711	2710	2713	258
15°	2644	2643	2639	2636	2640	747
25°	2482	2489	2491	2469	2456	1143
35°	2188	2212	2216	2188	2155	1368
45°	1814	1836	1834	1809	1776	1398
55°	1367	1376	1379	1345	1326	1218
65°	847	866	868	839	814	838
75°	341	360	366	354	325	373
85°	53	54	56	54	49	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2719.4	2719.4	2719.4	2719.4	2719.4
2.5°	2719.4	2719.4	2717.9	2716.4	2720.9
5°	2712.6	2712.6	2711.1	2709.6	2713.3
7.5°	2702.0	2701.3	2699.8	2698.3	2700.5
10°	2687.0	2686.2	2683.2	2682.5	2685.5
12.5°	2668.1	2667.4	2662.9	2662.9	2665.1
15°	2644.0	2643.3	2638.8	2636.5	2639.5
17.5°	2616.9	2616.2	2610.9	2604.9	2606.4
20°	2580.8	2580.8	2577.0	2568.0	2565.7
22.5°	2537.1	2539.3	2539.3	2522.0	2515.2
25°	2482.1	2488.9	2491.1	2469.3	2456.5
27.5°	2419.6	2430.1	2436.1	2408.3	2391.7
30°	2348.0	2365.3	2372.9	2342.7	2318.6
32.5°	2269.7	2291.5	2300.5	2271.2	2240.3
35°	2188.3	2211.7	2216.2	2187.5	2155.2
37.5°	2101.7	2125.8	2131.8	2106.2	2066.3
40°	2010.5	2034.6	2034.6	2013.5	1974.4
42.5°	1914.1	1939.7	1939.0	1913.4	1877.9
45°	1813.9	1836.5	1833.5	1808.6	1776.3
47.5°	1710.7	1725.0	1728.8	1699.4	1668.5
50°	1597.7	1612.0	1615.8	1582.7	1558.6
52.5°	1486.2	1495.3	1500.6	1462.1	1444.8
55°	1367.2	1375.5	1379.3	1345.4	1326.5
57.5°	1241.4	1252.0	1256.5	1222.6	1201.5
60°	1112.6	1123.9	1125.4	1093.8	1074.2
62.5°	981.5	996.6	999.6	968.0	944.6
65°	847.4	865.5	868.5	839.2	814.3
67.5°	713.4	737.5	738.2	714.1	684.7
70°	582.3	608.7	607.9	587.6	558.9
72.5°	457.2	481.4	486.6	467.8	439.9
75°	341.2	360.1	366.1	354.0	325.4
77.5°	242.6	259.9	265.2	253.9	232.8
80°	170.2	171.0	177.8	168.7	154.4
82.5°	105.5	104.0	106.2	102.4	94.2
85°	52.7	54.2	56.5	53.5	49.0
87.5°	18.1	18.8	20.3	20.3	18.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)