

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: P413169

Luminaire Tested: **24PD-10-PC3-L935**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413169
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-10-PC3-L935
Description: 10000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

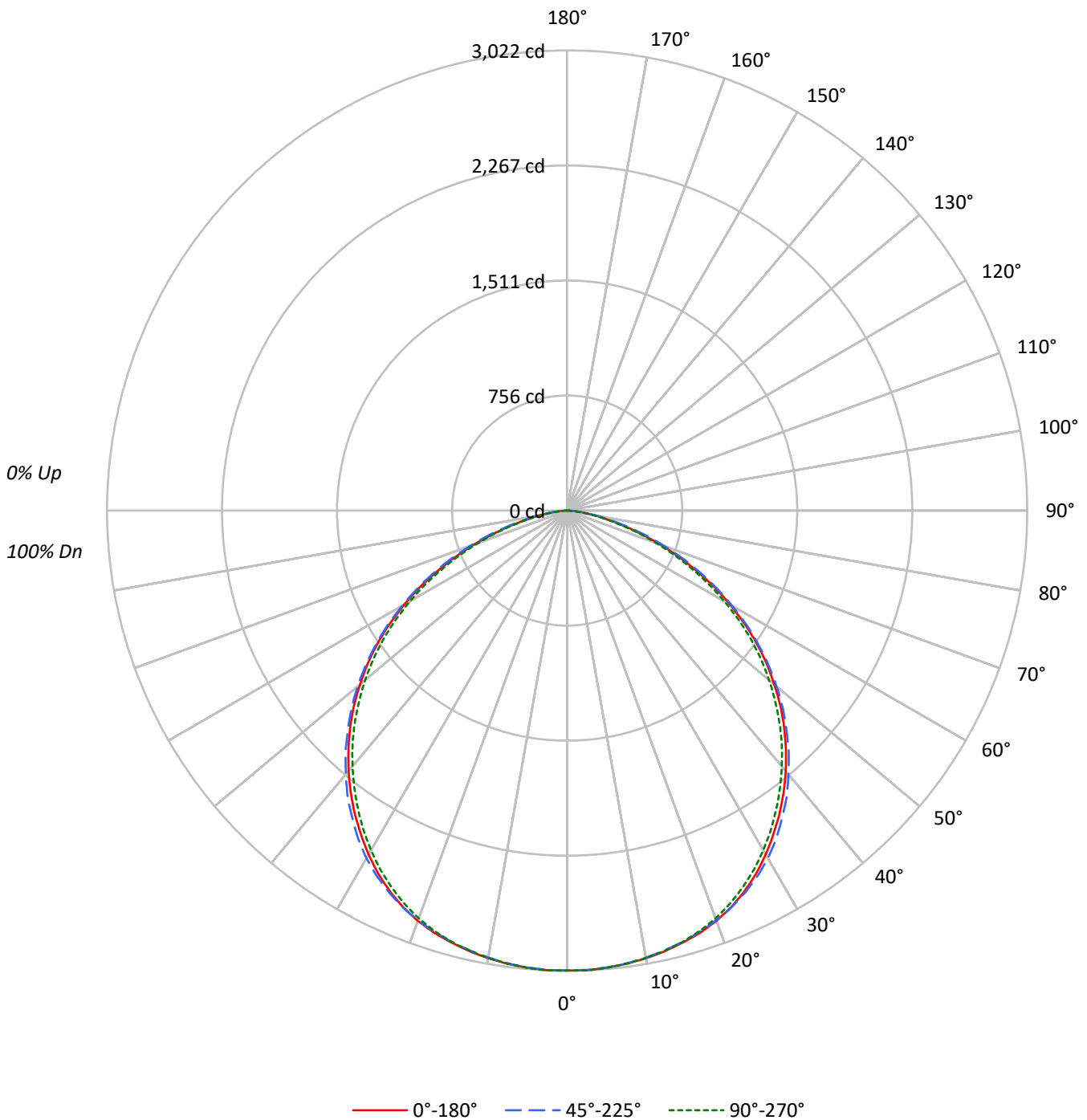
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8257.0 lumens
Efficiency: N/A
Efficacy: 106.7 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): 77.4
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°	4064	4064	4064
5°	4070	4068	4071
10°	4078	4072	4076
15°	4091	4083	4084
20°	4105	4099	4081
25°	4093	4108	4051
30°	4052	4095	4002
35°	3993	4044	3932
40°	3923	3970	3852
45°	3834	3876	3755
50°	3715	3757	3624
55°	3563	3594	3457
60°	3326	3364	3211
65°	2997	3072	2880
70°	2544	2657	2443
75°	1971	2114	1879
80°	1465	1530	1329
85°	905	969	840



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.6	3.5
10°-20°	828.4	10.0
20°-30°	1268.7	15.4
30°-40°	1526.2	18.5
40°-50°	1556.3	18.8
50°-60°	1349.2	16.3
60°-70°	935.4	11.3
70°-80°	427.2	5.2
80°-90°	78.9	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°	2383.7	28.9
0°-40°	3909.9	47.4
0°-60°	6815.4	82.5
0°-90°	8257.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8257.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3021	3021	3021	3021	3021	
5°	3013	3013	3012	3010	3014	287
15°	2937	2936	2931	2929	2932	830
25°	2757	2765	2767	2743	2729	1269
35°	2431	2457	2462	2430	2394	1520
45°	2015	2040	2037	2009	1973	1553
55°	1519	1528	1532	1494	1474	1353
65°	941	962	965	932	905	931
75°	379	400	407	393	362	415
85°	59	60	63	59	54	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3020.8	3020.8	3020.8	3020.8	3020.8
2.5°	3020.8	3020.8	3019.2	3017.5	3022.5
5°	3013.3	3013.3	3011.6	3010.0	3014.1
7.5°	3001.6	3000.7	2999.1	2997.4	2999.9
10°	2984.9	2984.0	2980.7	2979.8	2983.2
12.5°	2963.9	2963.1	2958.1	2958.1	2960.6
15°	2937.2	2936.3	2931.3	2928.8	2932.1
17.5°	2907.0	2906.2	2900.3	2893.6	2895.3
20°	2866.9	2866.9	2862.7	2852.6	2850.1
22.5°	2818.3	2820.8	2820.8	2801.6	2794.1
25°	2757.2	2764.8	2767.3	2743.0	2728.8
27.5°	2687.8	2699.5	2706.2	2675.2	2656.8
30°	2608.3	2627.5	2635.9	2602.4	2575.7
32.5°	2521.3	2545.5	2555.6	2522.9	2488.6
35°	2430.9	2456.8	2461.9	2430.1	2394.1
37.5°	2334.7	2361.4	2368.1	2339.7	2295.3
40°	2233.4	2260.2	2260.2	2236.8	2193.2
42.5°	2126.3	2154.7	2153.9	2125.5	2086.1
45°	2015.0	2040.1	2036.8	2009.1	1973.2
47.5°	1900.4	1916.3	1920.4	1887.8	1853.5
50°	1774.8	1790.7	1794.9	1758.1	1731.3
52.5°	1651.0	1661.0	1666.9	1624.2	1605.0
55°	1518.8	1528.0	1532.2	1494.5	1473.6
57.5°	1379.0	1390.8	1395.8	1358.1	1334.7
60°	1235.9	1248.5	1250.2	1215.0	1193.3
62.5°	1090.3	1107.1	1110.4	1075.3	1049.3
65°	941.4	961.5	964.8	932.2	904.6
67.5°	792.4	819.2	820.1	793.3	760.6
70°	646.8	676.1	675.3	652.7	620.9
72.5°	507.9	534.7	540.6	519.7	488.7
75°	379.1	400.0	406.7	393.3	361.5
77.5°	269.4	288.7	294.6	282.0	258.6
80°	189.1	190.0	197.5	187.4	171.5
82.5°	117.2	115.5	118.0	113.8	104.6
85°	58.6	60.2	62.8	59.4	54.4
87.5°	20.1	20.9	22.6	22.6	20.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)