

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: P413265

Luminaire Tested: **24PD-80-PC3-L850**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413265
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-80-PC3-L850
Description: 8000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

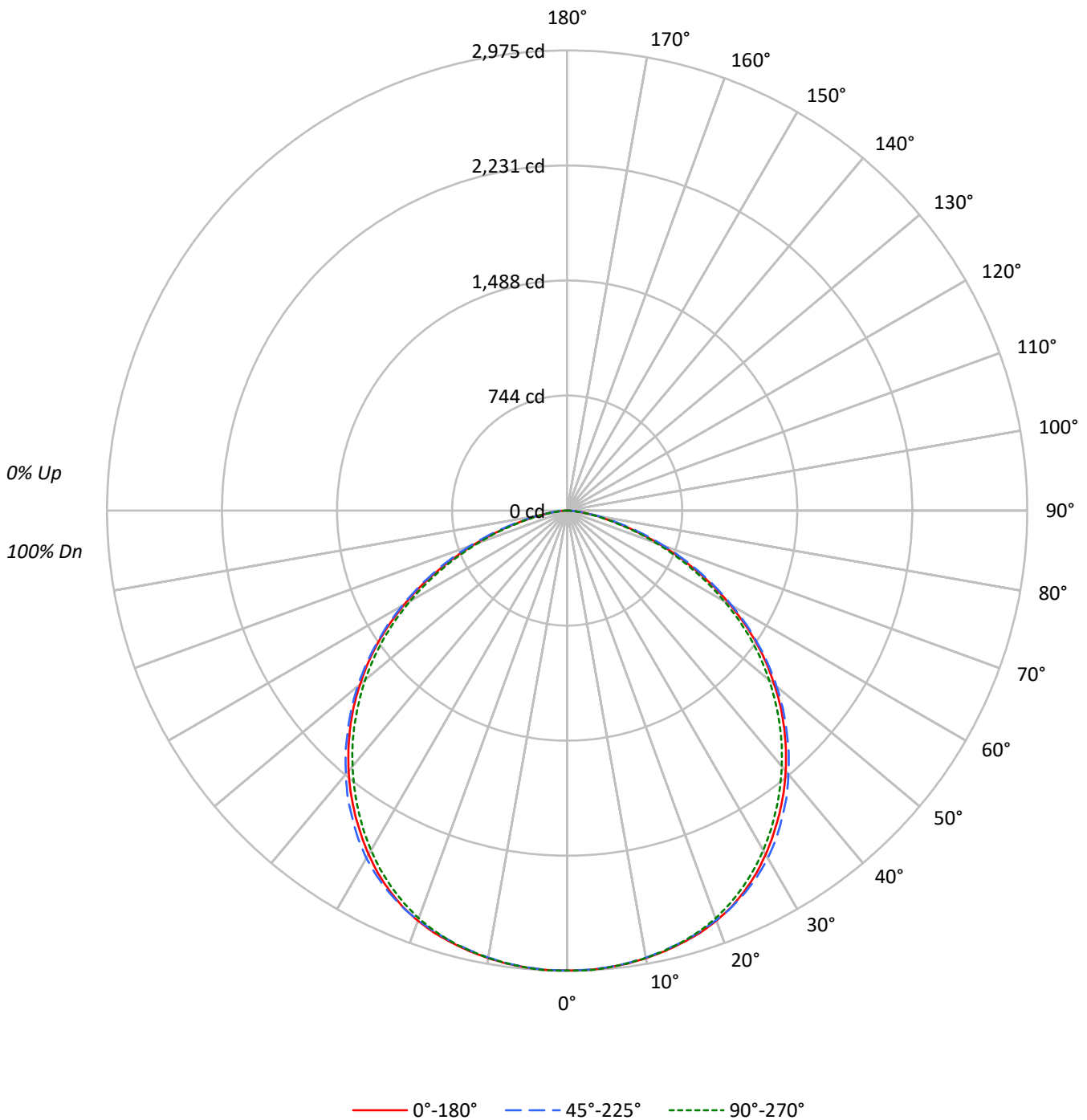
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8128.0 lumens
Efficiency: N/A
Efficacy: 134.8 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): 60.3
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	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°	4001	4001	4001
5°	4006	4004	4007
10°	4014	4009	4012
15°	4027	4019	4020
20°	4041	4035	4017
25°	4029	4044	3988
30°	3989	4031	3939
35°	3930	3981	3871
40°	3861	3908	3792
45°	3774	3815	3696
50°	3657	3698	3567
55°	3507	3538	3403
60°	3274	3312	3161
65°	2950	3024	2835
70°	2505	2615	2404
75°	1940	2081	1850
80°	1443	1506	1309
85°	891	954	826



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.1	3.5
10°-20°	815.5	10.0
20°-30°	1248.9	15.4
30°-40°	1502.4	18.5
40°-50°	1532.0	18.8
50°-60°	1328.2	16.3
60°-70°	920.8	11.3
70°-80°	420.5	5.2
80°-90°	77.7	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°	2346.4	28.9
0°-40°	3848.8	47.4
0°-60°	6709.0	82.5
0°-90°	8128.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8128.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2974	2974	2974	2974	2974	
5°	2966	2966	2965	2963	2967	282
15°	2891	2890	2886	2883	2886	817
25°	2714	2722	2724	2700	2686	1250
35°	2393	2418	2423	2392	2357	1496
45°	1984	2008	2005	1978	1942	1529
55°	1495	1504	1508	1471	1451	1332
65°	927	946	950	918	890	916
75°	373	394	400	387	356	408
85°	58	59	62	58	54	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2973.6	2973.6	2973.6	2973.6	2973.6
2.5°	2973.6	2973.6	2972.0	2970.3	2975.3
5°	2966.2	2966.2	2964.6	2962.9	2967.0
7.5°	2954.7	2953.9	2952.2	2950.6	2953.0
10°	2938.2	2937.4	2934.1	2933.3	2936.6
12.5°	2917.6	2916.8	2911.9	2911.9	2914.3
15°	2891.3	2890.4	2885.5	2883.0	2886.3
17.5°	2861.6	2860.8	2855.0	2848.4	2850.1
20°	2822.1	2822.1	2818.0	2808.1	2805.6
22.5°	2774.3	2776.8	2776.8	2757.8	2750.4
25°	2714.2	2721.6	2724.0	2700.2	2686.2
27.5°	2645.8	2657.3	2663.9	2633.4	2615.3
30°	2567.5	2586.5	2594.7	2561.8	2535.4
32.5°	2481.9	2505.8	2515.6	2483.5	2449.8
35°	2392.9	2418.4	2423.4	2392.1	2356.7
37.5°	2298.2	2324.5	2331.1	2303.1	2259.5
40°	2198.5	2224.9	2224.9	2201.8	2159.0
42.5°	2093.1	2121.1	2120.3	2092.3	2053.5
45°	1983.5	2008.2	2004.9	1977.8	1942.3
47.5°	1870.7	1886.3	1890.4	1858.3	1824.5
50°	1747.1	1762.8	1766.9	1730.6	1704.3
52.5°	1625.2	1635.1	1640.9	1598.8	1579.9
55°	1495.1	1504.1	1508.2	1471.2	1450.6
57.5°	1357.5	1369.0	1374.0	1336.9	1313.8
60°	1216.6	1229.0	1230.6	1196.0	1174.6
62.5°	1073.3	1089.8	1093.1	1058.5	1032.9
65°	926.7	946.5	949.8	917.6	890.4
67.5°	780.1	806.4	807.2	780.9	748.8
70°	636.7	665.6	664.7	642.5	611.2
72.5°	500.0	526.4	532.1	511.5	481.1
75°	373.1	393.7	400.3	387.1	355.8
77.5°	265.2	284.2	290.0	277.6	254.5
80°	186.2	187.0	194.4	184.5	168.9
82.5°	115.3	113.7	116.1	112.0	103.0
85°	57.7	59.3	61.8	58.5	53.5
87.5°	19.8	20.6	22.2	22.2	19.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)