

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: P413283

Luminaire Tested: **24PD-90-PC3-L850**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413283
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-90-PC3-L850
Description: 9000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

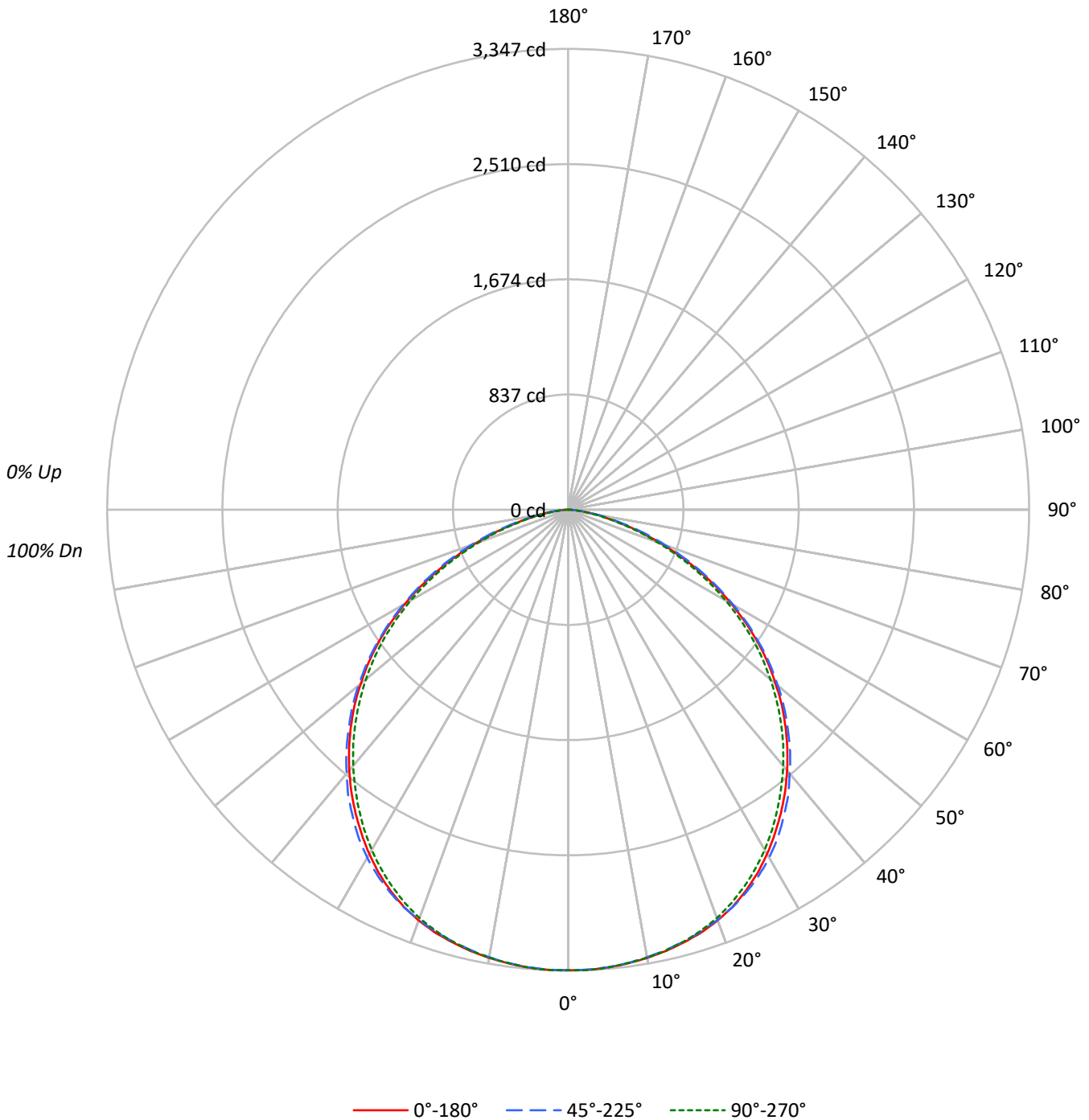
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9143.0 lumens
Efficiency: N/A
Efficacy: 133.1 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): 68.7
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°	4501	4501	4501
5°	4507	4504	4508
10°	4516	4509	4513
15°	4530	4521	4523
20°	4545	4539	4519
25°	4533	4549	4486
30°	4487	4535	4431
35°	4421	4478	4354
40°	4344	4396	4266
45°	4246	4291	4157
50°	4114	4160	4013
55°	3945	3980	3828
60°	3683	3725	3556
65°	3319	3401	3189
70°	2818	2942	2705
75°	2182	2341	2081
80°	1623	1695	1472
85°	1002	1073	929



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.3	3.5
10°-20°	917.3	10.0
20°-30°	1404.8	15.4
30°-40°	1690.0	18.5
40°-50°	1723.3	18.8
50°-60°	1494.0	16.3
60°-70°	1035.8	11.3
70°-80°	473.1	5.2
80°-90°	87.4	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°	2639.4	28.9
0°-40°	4329.4	47.4
0°-60°	7546.8	82.5
0°-90°	9143.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9143.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3345	3345	3345	3345	3345	
5°	3337	3337	3335	3333	3338	318
15°	3252	3251	3246	3243	3247	919
25°	3053	3061	3064	3037	3022	1406
35°	2692	2720	2726	2691	2651	1683
45°	2231	2259	2255	2225	2185	1720
55°	1682	1692	1697	1655	1632	1499
65°	1042	1065	1068	1032	1002	1031
75°	420	443	450	436	400	459
85°	65	67	70	66	60	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3345.0	3345.0	3345.0	3345.0	3345.0
2.5°	3345.0	3345.0	3343.1	3341.3	3346.8
5°	3336.6	3336.6	3334.8	3332.9	3337.6
7.5°	3323.7	3322.7	3320.9	3319.0	3321.8
10°	3305.1	3304.2	3300.5	3299.6	3303.3
12.5°	3282.0	3281.0	3275.5	3275.5	3278.3
15°	3252.3	3251.4	3245.8	3243.1	3246.8
17.5°	3219.0	3218.0	3211.5	3204.1	3206.0
20°	3174.5	3174.5	3169.9	3158.7	3156.0
22.5°	3120.7	3123.5	3123.5	3102.2	3093.9
25°	3053.1	3061.4	3064.2	3037.3	3021.6
27.5°	2976.2	2989.2	2996.6	2962.3	2941.9
30°	2888.2	2909.5	2918.7	2881.7	2852.0
32.5°	2791.8	2818.7	2829.8	2793.7	2755.7
35°	2691.7	2720.5	2726.0	2690.8	2651.0
37.5°	2585.2	2614.8	2622.2	2590.7	2541.6
40°	2473.1	2502.7	2502.7	2476.8	2428.6
42.5°	2354.5	2386.0	2385.0	2353.5	2310.0
45°	2231.2	2259.0	2255.3	2224.7	2184.9
47.5°	2104.3	2121.9	2126.5	2090.4	2052.4
50°	1965.3	1982.9	1987.5	1946.8	1917.1
52.5°	1828.2	1839.3	1845.8	1798.5	1777.2
55°	1681.8	1691.9	1696.6	1654.9	1631.7
57.5°	1527.0	1540.0	1545.5	1503.8	1477.9
60°	1368.6	1382.5	1384.3	1345.4	1321.3
62.5°	1207.3	1225.9	1229.6	1190.7	1161.9
65°	1042.4	1064.6	1068.4	1032.2	1001.6
67.5°	877.5	907.1	908.1	878.4	842.3
70°	716.3	748.7	747.8	722.7	687.5
72.5°	562.4	592.1	598.6	575.4	541.1
75°	419.7	442.9	450.3	435.5	400.3
77.5°	298.4	319.7	326.2	312.3	286.3
80°	209.4	210.3	218.7	207.6	190.0
82.5°	129.7	127.9	130.6	126.0	115.8
85°	64.9	66.7	69.5	65.8	60.2
87.5°	22.2	23.2	25.0	25.0	22.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)