

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: P412788

Luminaire Tested: **22PD-70-PP3-L850**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412788
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-16)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22PD-70-PP3-L850
Description: 7000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

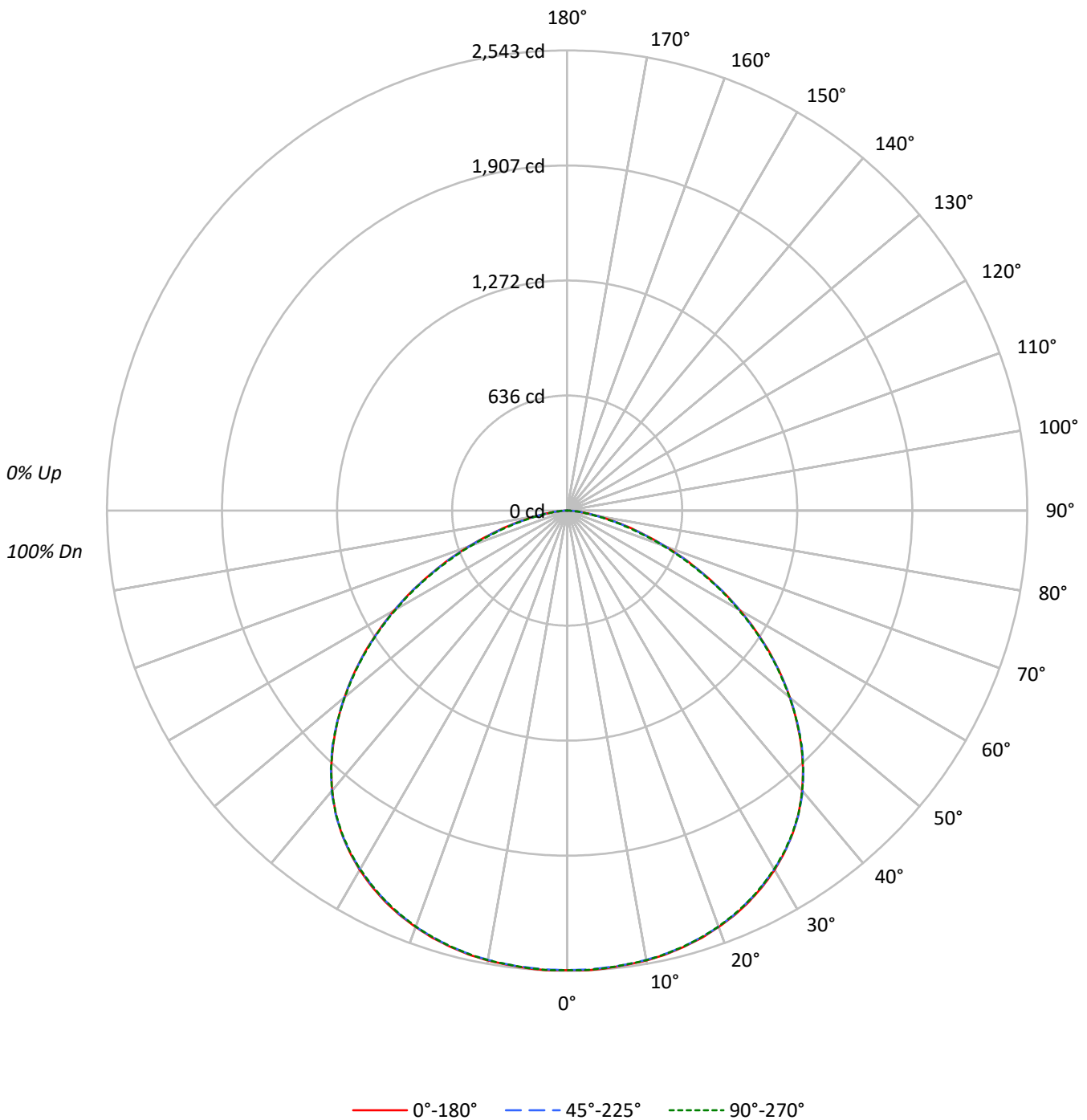
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7287.0 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.43
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 63
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	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	70	62	56	68	61	55	66	60	55	64	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	47	57	51	47	45
6	71	58	49	43	69	57	48	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6835	6835	6835
5°	6856	6847	6852
10°	6898	6889	6894
15°	6953	6946	6946
20°	7013	7006	7004
25°	7076	7063	7063
30°	7125	7112	7109
35°	7146	7146	7137
40°	7099	7114	7099
45°	6958	6977	6968
50°	6724	6735	6717
55°	6402	6386	6374
60°	5942	5929	5883
65°	5308	5303	5243
70°	4537	4511	4410
75°	3615	3509	3403
80°	2576	2523	2391
85°	1677	1677	1624



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.5	3.3
10°-20°	704.5	9.7
20°-30°	1097.1	15.1
30°-40°	1357.8	18.6
40°-50°	1408.0	19.3
50°-60°	1213.6	16.7
60°-70°	825.1	11.3
70°-80°	369.2	5.1
80°-90°	70.3	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°	2043.1	28.0
0°-40°	3400.9	46.7
0°-60°	6022.4	82.6
0°-90°	7287.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7287.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2540	2540	2540	2540	2540	
5°	2538	2533	2535	2534	2536	242
15°	2496	2492	2493	2492	2493	706
25°	2383	2380	2379	2378	2379	1099
35°	2175	2173	2175	2172	2173	1359
45°	1828	1827	1833	1829	1831	1407
55°	1364	1359	1361	1358	1358	1217
65°	834	840	833	830	823	828
75°	348	348	338	336	327	374
85°	54	56	54	53	53	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2539.8	2539.8	2539.8	2539.8	2539.8
2.5°	2543.2	2538.1	2538.1	2539.0	2541.5
5°	2538.1	2533.1	2534.8	2533.9	2536.5
7.5°	2531.4	2527.1	2529.7	2528.0	2529.7
10°	2524.6	2520.3	2521.2	2520.3	2522.9
12.5°	2512.7	2507.6	2509.3	2509.3	2510.2
15°	2495.7	2491.5	2493.2	2491.5	2493.2
17.5°	2475.4	2470.3	2471.2	2470.3	2472.0
20°	2449.1	2445.7	2446.6	2444.9	2445.7
22.5°	2419.4	2415.2	2416.0	2414.3	2414.3
25°	2383.0	2379.6	2378.7	2377.9	2378.7
27.5°	2340.6	2336.3	2336.3	2335.5	2335.5
30°	2293.1	2288.8	2288.8	2288.0	2288.0
32.5°	2237.1	2235.4	2236.3	2234.6	2233.7
35°	2175.2	2172.6	2175.2	2171.8	2172.6
37.5°	2103.1	2099.7	2104.8	2101.4	2102.3
40°	2020.9	2019.2	2025.1	2022.5	2020.9
42.5°	1929.3	1929.3	1931.8	1932.7	1931.0
45°	1828.3	1826.7	1833.4	1829.2	1830.9
47.5°	1719.8	1717.3	1722.3	1721.5	1720.6
50°	1606.2	1604.5	1608.7	1604.5	1604.5
52.5°	1488.3	1487.4	1488.3	1484.0	1483.2
55°	1364.5	1359.4	1361.1	1358.5	1358.5
57.5°	1235.6	1229.6	1230.5	1229.6	1230.5
60°	1104.1	1102.4	1101.6	1097.3	1093.1
62.5°	969.3	971.0	970.1	964.2	960.0
65°	833.6	840.4	832.8	830.2	823.4
67.5°	705.6	708.1	703.0	697.1	689.4
70°	576.7	581.7	573.3	567.3	560.5
72.5°	453.7	457.1	449.5	446.1	437.6
75°	347.7	348.5	337.5	335.8	327.3
77.5°	247.6	251.0	242.5	242.5	234.1
80°	166.2	172.1	162.8	160.3	154.3
82.5°	104.3	105.2	102.6	100.1	97.5
85°	54.3	56.0	54.3	52.6	52.6
87.5°	20.4	21.2	20.4	19.5	20.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)