

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: P412896

Luminaire Tested: **24PD-65-PP3-L850**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412896
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24PD-65-PP3-L850
Description: 6500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

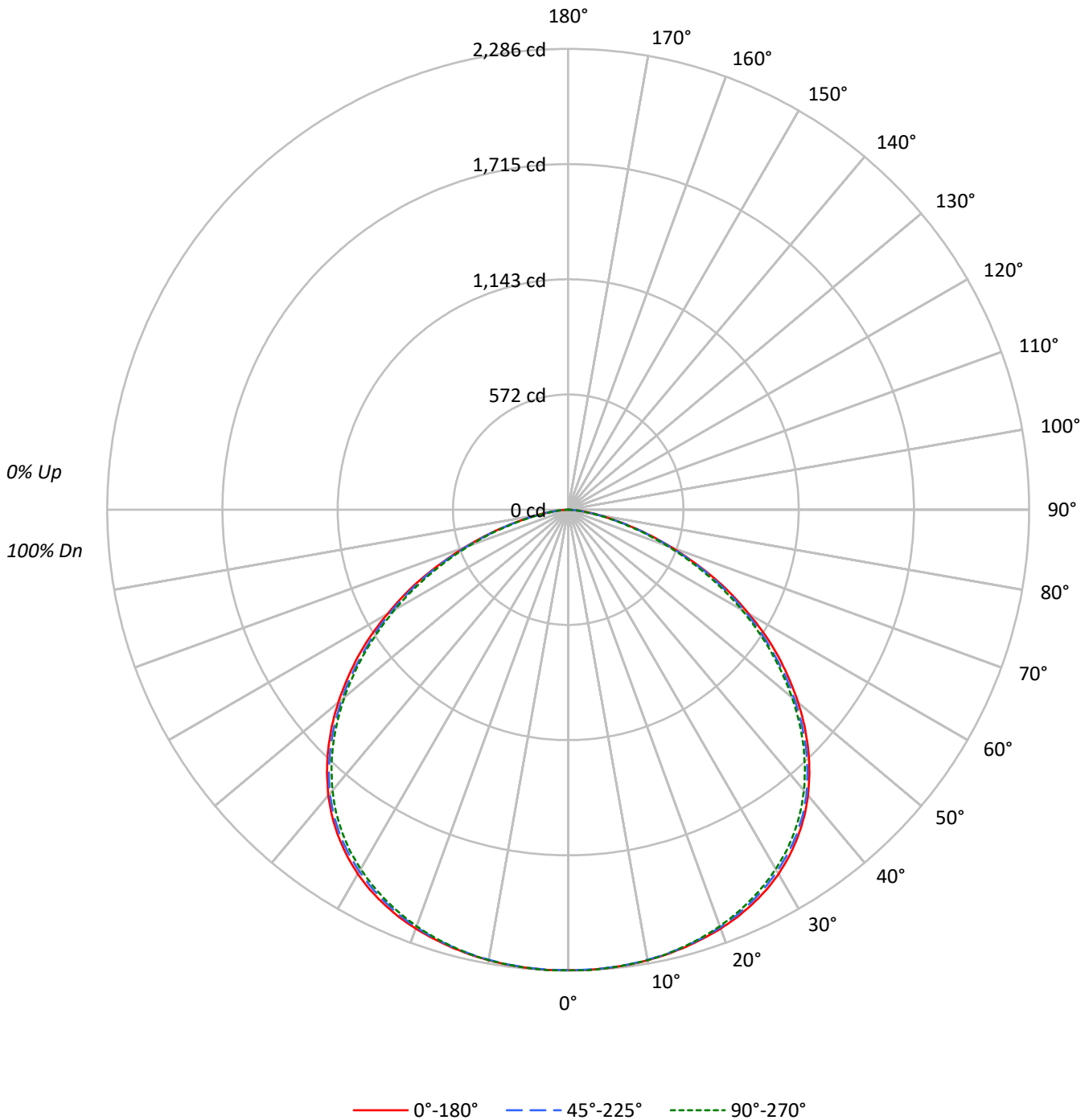
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6647.0 lumens
Efficiency: N/A
Efficacy: 133.7 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.33 / 1.43
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 49.7
Input Voltage (V): NR
Input Current (A_{in}): 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	86	81	77		83	79	75		80	77	74	71
3	91	81	73	66	89	79	72	66	76	70	65		73	68	64		71	66	63	60
4	83	72	63	56	81	70	62	56	68	61	55		65	59	54		63	58	54	52
5	77	64	55	49	75	63	54	48	61	53	48		59	52	47		57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42		53	46	41		52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37		48	42	37		47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33		44	38	33		43	37	32	31
9	57	44	35	30	55	43	35	30	42	35	30		41	34	29		40	34	29	27
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°	3074	3074	3074
5°	3082	3081	3083
10°	3101	3097	3100
15°	3128	3124	3122
20°	3166	3156	3148
25°	3206	3189	3174
30°	3242	3219	3198
35°	3259	3239	3210
40°	3250	3231	3194
45°	3204	3173	3137
50°	3116	3066	3034
55°	2987	2915	2878
60°	2783	2735	2679
65°	2523	2472	2400
70°	2153	2114	2046
75°	1682	1665	1585
80°	1241	1189	1122
85°	749	749	698



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.3	3.3
10°-20°	634.2	9.5
20°-30°	991.3	14.9
30°-40°	1232.0	18.5
40°-50°	1283.6	19.3
50°-60°	1113.8	16.8
60°-70°	765.9	11.5
70°-80°	345.6	5.2
80°-90°	63.3	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°	1842.8	27.7
0°-40°	3074.7	46.3
0°-60°	5472.2	82.3
0°-90°	6647.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6647.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2284	2284	2284	2284	2284	
5°	2282	2282	2281	2279	2282	217
15°	2246	2246	2242	2240	2241	635
25°	2160	2159	2148	2140	2138	996
35°	1984	1984	1972	1961	1954	1240
45°	1684	1685	1667	1655	1649	1296
55°	1273	1266	1243	1228	1227	1135
65°	792	789	776	758	754	782
75°	324	325	320	312	305	352
85°	48	48	48	48	45	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2284.4	2284.4	2284.4	2284.4	2284.4
2.5°	2285.0	2285.0	2283.7	2281.7	2286.4
5°	2281.7	2282.4	2281.1	2279.1	2282.4
7.5°	2277.1	2277.7	2275.7	2273.8	2276.4
10°	2269.8	2269.1	2267.1	2265.8	2269.1
12.5°	2259.1	2258.5	2256.5	2255.2	2257.8
15°	2245.9	2245.9	2242.5	2240.5	2241.2
17.5°	2229.9	2229.9	2225.3	2220.6	2221.9
20°	2211.3	2210.6	2204.0	2199.4	2198.7
22.5°	2188.1	2188.1	2178.8	2172.8	2170.8
25°	2159.5	2158.8	2148.2	2139.6	2138.2
27.5°	2127.0	2125.6	2113.0	2104.4	2101.0
30°	2086.4	2085.1	2071.8	2062.5	2058.5
32.5°	2038.6	2040.6	2025.3	2014.7	2010.7
35°	1984.1	1984.1	1972.2	1960.9	1954.2
37.5°	1921.7	1921.7	1910.4	1899.1	1891.1
40°	1850.6	1851.3	1839.3	1825.4	1818.7
42.5°	1770.9	1772.2	1756.3	1745.0	1737.7
45°	1683.9	1684.6	1667.3	1654.7	1648.7
47.5°	1589.6	1588.2	1569.0	1558.3	1552.4
50°	1488.6	1485.9	1464.7	1454.7	1449.4
52.5°	1383.0	1377.7	1359.1	1344.5	1339.8
55°	1273.4	1266.1	1242.8	1228.2	1226.9
57.5°	1159.1	1150.5	1131.2	1117.3	1112.0
60°	1034.2	1032.3	1016.3	999.7	995.7
62.5°	917.3	911.4	897.4	877.5	875.5
65°	792.5	789.1	776.5	757.9	753.9
67.5°	663.6	666.9	656.3	639.7	634.4
70°	547.3	549.3	537.4	522.1	520.1
72.5°	430.4	433.8	423.8	413.8	411.8
75°	323.5	324.8	320.2	311.5	304.9
77.5°	229.8	234.5	229.2	223.2	217.9
80°	160.1	152.8	153.4	150.8	144.8
82.5°	96.3	93.0	92.3	89.7	87.0
85°	48.5	47.8	48.5	47.8	45.2
87.5°	15.9	17.3	17.9	17.9	16.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)