

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: P412918

Luminaire Tested: **24PD-75-PP3-L940**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412918
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-75-PP3-L940
Description: 7500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

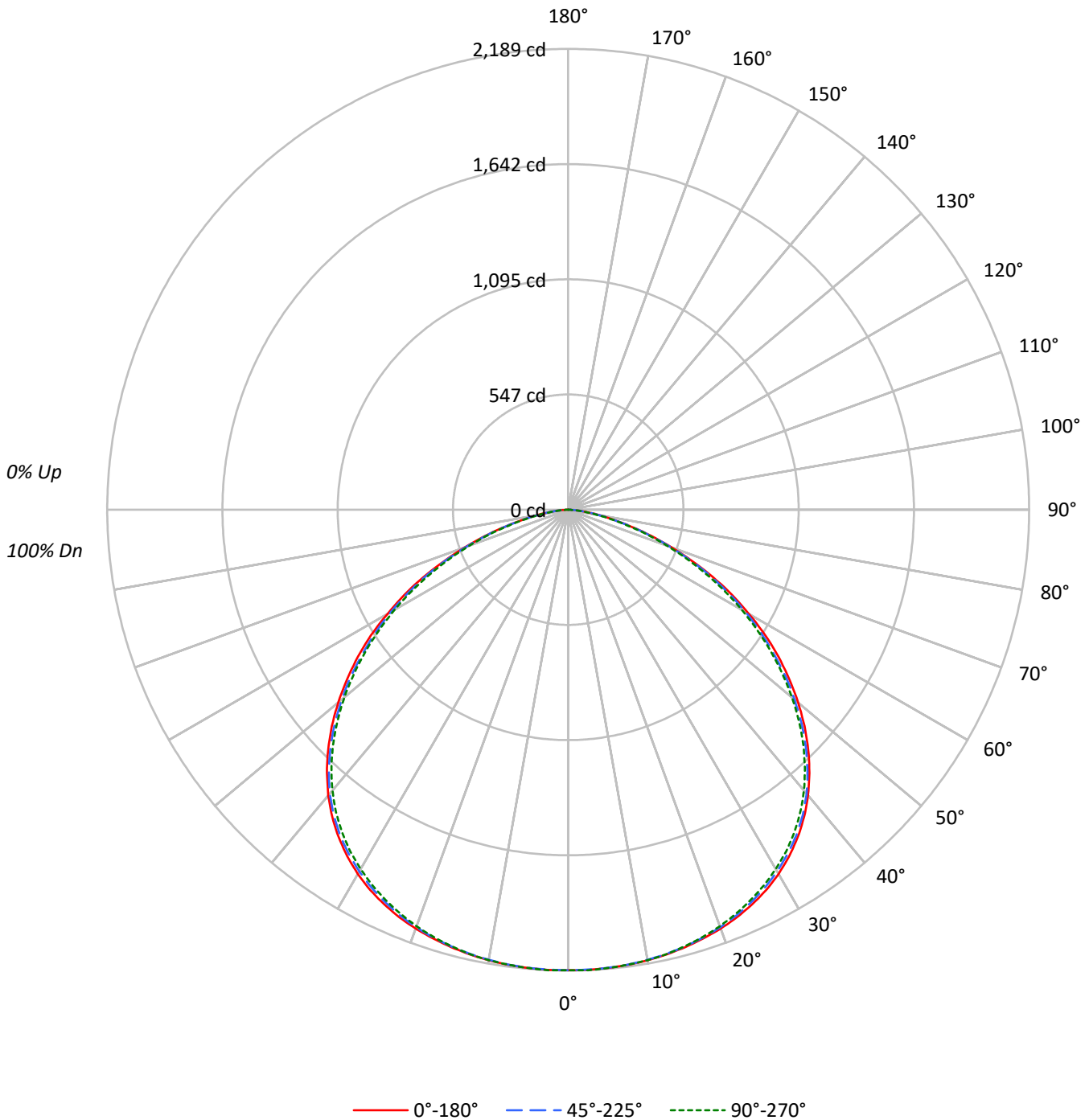
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6365.0 lumens
Efficiency: N/A
Efficacy: 113.1 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): 56.3
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	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71					71			
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	63	60					60			
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	52					52			
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45					45			
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39					39			
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34					34			
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31					31			
9	57	44	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27					27			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2943	2943	2943
5°	2951	2950	2952
10°	2970	2966	2969
15°	2996	2991	2989
20°	3032	3022	3015
25°	3070	3054	3040
30°	3104	3082	3063
35°	3121	3102	3074
40°	3113	3094	3059
45°	3068	3038	3004
50°	2984	2936	2905
55°	2860	2792	2756
60°	2665	2619	2566
65°	2416	2367	2298
70°	2062	2024	1959
75°	1611	1594	1518
80°	1188	1138	1075
85°	716	716	668



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.1	3.3
10°-20°	607.3	9.5
20°-30°	949.2	14.9
30°-40°	1179.7	18.5
40°-50°	1229.1	19.3
50°-60°	1066.6	16.8
60°-70°	733.4	11.5
70°-80°	331.0	5.2
80°-90°	60.7	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°	1764.6	27.7
0°-40°	2944.3	46.3
0°-60°	5240.0	82.3
0°-90°	6365.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6365.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2188	2188	2188	2188	2188	
5°	2185	2186	2184	2182	2186	208
15°	2151	2151	2147	2146	2146	608
25°	2068	2067	2057	2049	2048	954
35°	1900	1900	1888	1878	1871	1187
45°	1612	1613	1597	1584	1579	1241
55°	1219	1212	1190	1176	1175	1087
65°	759	756	744	726	722	749
75°	310	311	307	298	292	337
85°	46	46	46	46	43	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2187.5	2187.5	2187.5	2187.5	2187.5
2.5°	2188.1	2188.1	2186.8	2184.9	2189.4
5°	2184.9	2185.6	2184.3	2182.4	2185.6
7.5°	2180.5	2181.1	2179.2	2177.3	2179.8
10°	2173.5	2172.8	2170.9	2169.7	2172.8
12.5°	2163.3	2162.7	2160.7	2159.5	2162.0
15°	2150.6	2150.6	2147.4	2145.5	2146.1
17.5°	2135.3	2135.3	2130.9	2126.4	2127.7
20°	2117.5	2116.9	2110.5	2106.0	2105.4
22.5°	2095.2	2095.2	2086.3	2080.6	2078.7
25°	2067.9	2067.2	2057.1	2048.8	2047.5
27.5°	2036.7	2035.4	2023.4	2015.1	2011.9
30°	1997.9	1996.6	1983.9	1975.0	1971.2
32.5°	1952.1	1954.0	1939.4	1929.2	1925.4
35°	1900.0	1900.0	1888.5	1877.7	1871.3
37.5°	1840.2	1840.2	1829.4	1818.5	1810.9
40°	1772.1	1772.7	1761.3	1747.9	1741.6
42.5°	1695.8	1697.1	1681.8	1671.0	1664.0
45°	1612.5	1613.1	1596.6	1584.5	1578.7
47.5°	1522.1	1520.9	1502.4	1492.2	1486.5
50°	1425.4	1422.9	1402.5	1393.0	1387.9
52.5°	1324.3	1319.2	1301.4	1287.4	1283.0
55°	1219.4	1212.4	1190.1	1176.1	1174.8
57.5°	1110.0	1101.7	1083.2	1069.9	1064.8
60°	990.4	988.5	973.2	957.3	953.5
62.5°	878.4	872.7	859.3	840.3	838.3
65°	758.8	755.7	743.6	725.8	721.9
67.5°	635.4	638.6	628.4	612.5	607.5
70°	524.1	526.0	514.6	500.0	498.0
72.5°	412.2	415.4	405.8	396.3	394.4
75°	309.8	311.0	306.6	298.3	292.0
77.5°	220.1	224.5	219.4	213.7	208.6
80°	153.3	146.3	146.9	144.4	138.7
82.5°	92.2	89.1	88.4	85.9	83.3
85°	46.4	45.8	46.4	45.8	43.3
87.5°	15.3	16.5	17.2	17.2	15.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)