

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: P412456

Luminaire Tested: **22PD-75-PB1-L927**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412456
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-14)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22PD-75-PB1-L927
Description: 7500 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 2700 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

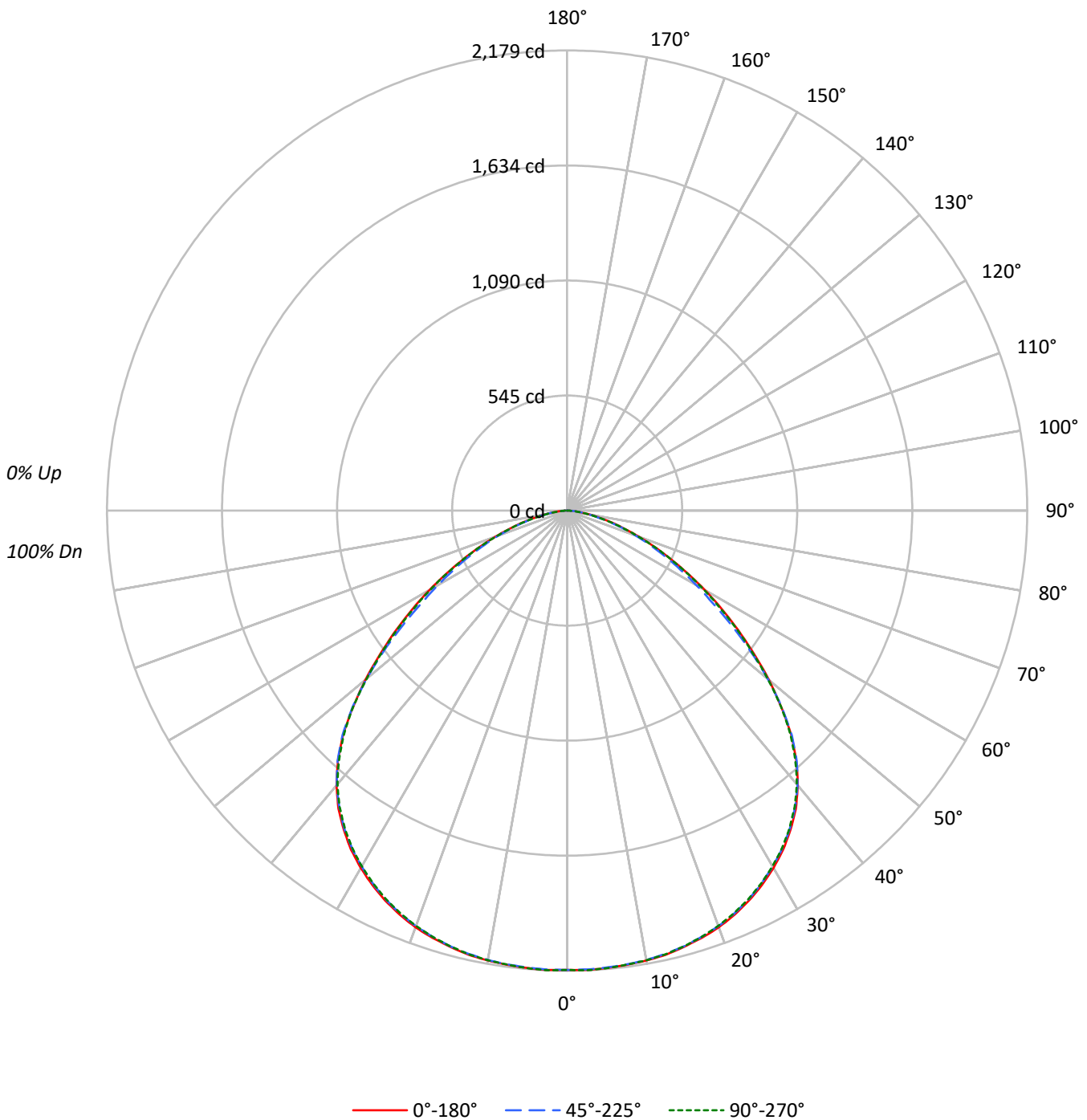
Lumens per Lamp: N/A
Luminaire Lumens: 5711.0 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.32 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 67.5
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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	76	73
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65	63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	66	61	56	54
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	37
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	34	29	54	41	34	29	41	34	29	40	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5854	5854	5854
5°	5873	5867	5874
10°	5911	5904	5907
15°	5959	5950	5950
20°	6014	5996	5993
25°	6051	6033	6027
30°	6072	6046	6042
35°	6059	6041	6030
40°	5969	5962	5943
45°	5706	5724	5680
50°	5223	5195	5190
55°	4642	4478	4610
60°	4047	3801	4022
65°	3431	3247	3414
70°	2836	2720	2810
75°	2294	2147	2203
80°	1657	1605	1595
85°	1081	1081	1037



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.0	3.6
10°-20°	603.7	10.6
20°-30°	936.7	16.4
30°-40°	1148.7	20.1
40°-50°	1148.2	20.1
50°-60°	869.8	15.2
60°-70°	521.7	9.1
70°-80°	229.7	4.0
80°-90°	45.6	0.8
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°	1747.4	30.6
0°-40°	2896.0	50.7
0°-60°	4914.1	86.0
0°-90°	5711.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5711.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2175	2175	2175	2175	2175	
5°	2174	2171	2172	2171	2175	207
15°	2139	2137	2136	2134	2136	605
25°	2038	2034	2032	2029	2030	939
35°	1844	1844	1839	1838	1836	1152
45°	1499	1501	1504	1500	1493	1148
55°	990	968	954	967	983	887
65°	539	520	510	519	536	539
75°	221	216	206	210	212	235
85°	35	36	35	34	34	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2175.3	2175.3	2175.3	2175.3	2175.3
2.5°	2177.3	2174.0	2174.6	2174.6	2178.7
5°	2174.0	2171.3	2172.0	2171.3	2174.6
7.5°	2169.3	2166.6	2167.2	2166.6	2168.6
10°	2163.2	2160.5	2160.5	2159.2	2161.9
12.5°	2155.1	2151.8	2150.4	2149.8	2151.8
15°	2139.0	2137.0	2135.6	2134.3	2135.6
17.5°	2121.5	2118.1	2116.8	2114.1	2116.8
20°	2100.0	2095.3	2093.9	2091.9	2092.6
22.5°	2071.7	2067.7	2065.7	2062.3	2063.7
25°	2038.1	2034.1	2032.0	2028.7	2030.0
27.5°	1999.1	1996.4	1991.7	1989.0	1989.7
30°	1954.0	1951.3	1945.9	1944.6	1944.6
32.5°	1904.2	1900.9	1896.2	1894.8	1894.2
35°	1844.4	1843.7	1839.0	1837.6	1835.6
37.5°	1779.1	1777.8	1772.4	1771.1	1769.0
40°	1699.1	1697.7	1697.1	1694.4	1691.7
42.5°	1606.3	1608.3	1609.6	1604.2	1598.9
45°	1499.3	1501.3	1504.0	1500.0	1492.6
47.5°	1374.2	1382.3	1378.2	1380.9	1373.5
50°	1247.7	1247.7	1241.0	1243.7	1239.7
52.5°	1115.2	1104.5	1096.4	1101.8	1107.2
55°	989.5	967.9	954.5	967.3	982.7
57.5°	869.0	843.5	818.6	838.8	857.6
60°	752.0	722.4	706.3	721.1	747.3
62.5°	641.0	619.5	603.4	614.8	637.0
65°	538.8	519.9	509.9	518.6	536.1
67.5°	445.3	432.5	422.4	429.8	443.3
70°	360.5	357.2	345.7	349.1	357.2
72.5°	283.2	282.5	272.4	275.1	279.8
75°	220.6	215.9	206.5	209.9	211.9
77.5°	156.1	158.1	149.3	151.3	151.3
80°	106.9	110.3	103.6	102.2	102.9
82.5°	67.9	67.9	67.3	66.6	64.6
85°	35.0	36.3	35.0	33.6	33.6
87.5°	13.5	13.5	13.5	12.8	12.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)