

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: P412418

Luminaire Tested: **22PD-55-PB1-L840**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412418
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-55-PB1-L840
Description: 5500 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

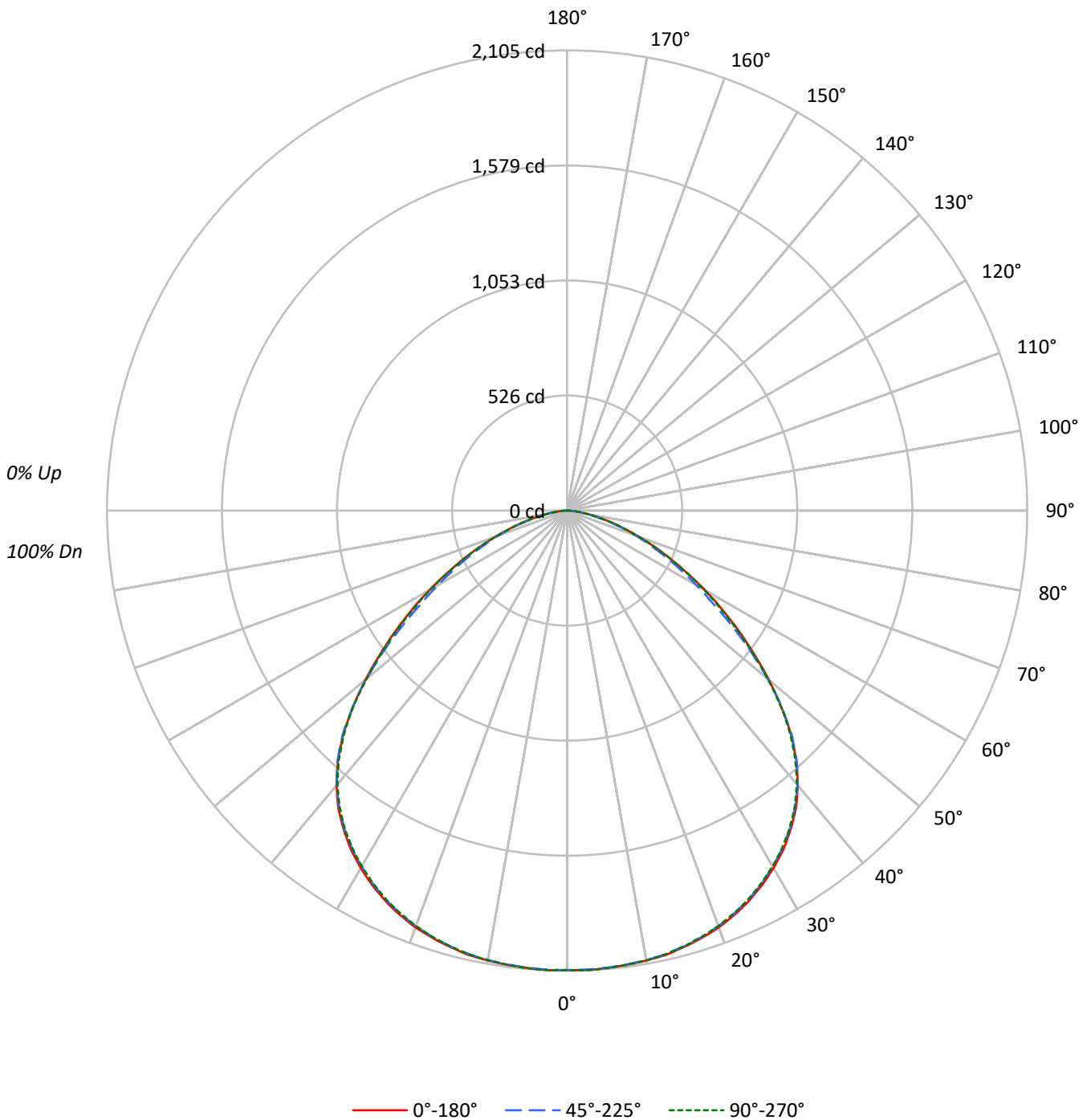
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5518.0 lumens
Efficiency: N/A
Efficacy: 119.4 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): 46.2
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	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°	5656	5656	5656
5°	5674	5669	5676
10°	5711	5704	5708
15°	5758	5749	5749
20°	5810	5794	5790
25°	5847	5830	5824
30°	5867	5842	5838
35°	5854	5837	5826
40°	5767	5760	5742
45°	5513	5530	5488
50°	5047	5020	5014
55°	4485	4327	4455
60°	3911	3673	3886
65°	3315	3137	3298
70°	2741	2629	2715
75°	2217	2074	2128
80°	1601	1551	1540
85°	1044	1044	1003



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.0	3.6
10°-20°	583.3	10.6
20°-30°	905.1	16.4
30°-40°	1109.9	20.1
40°-50°	1109.5	20.1
50°-60°	840.4	15.2
60°-70°	504.0	9.1
70°-80°	221.9	4.0
80°-90°	44.0	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°	1688.3	30.6
0°-40°	2798.2	50.7
0°-60°	4748.0	86.0
0°-90°	5518.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5518.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2102	2102	2102	2102	2102	
5°	2100	2098	2099	2098	2101	200
15°	2067	2065	2064	2062	2064	584
25°	1969	1965	1963	1960	1961	908
35°	1782	1781	1777	1776	1774	1113
45°	1449	1451	1453	1449	1442	1109
55°	956	935	922	935	950	857
65°	521	502	493	501	518	521
75°	213	209	200	203	205	227
85°	34	35	34	32	32	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2101.8	2101.8	2101.8	2101.8	2101.8
2.5°	2103.8	2100.5	2101.2	2101.2	2105.1
5°	2100.5	2097.9	2098.6	2097.9	2101.2
7.5°	2096.0	2093.4	2094.0	2093.4	2095.3
10°	2090.1	2087.5	2087.5	2086.2	2088.8
12.5°	2082.3	2079.1	2077.8	2077.1	2079.1
15°	2066.7	2064.8	2063.5	2062.2	2063.5
17.5°	2049.8	2046.6	2045.3	2042.7	2045.3
20°	2029.0	2024.5	2023.2	2021.2	2021.9
22.5°	2001.7	1997.8	1995.9	1992.6	1993.9
25°	1969.2	1965.3	1963.4	1960.1	1961.4
27.5°	1931.5	1928.9	1924.4	1921.8	1922.4
30°	1888.0	1885.4	1880.2	1878.9	1878.9
32.5°	1839.9	1836.6	1832.1	1830.8	1830.1
35°	1782.0	1781.4	1776.8	1775.5	1773.6
37.5°	1719.0	1717.7	1712.5	1711.2	1709.3
40°	1641.7	1640.4	1639.7	1637.1	1634.5
42.5°	1552.0	1553.9	1555.2	1550.0	1544.8
45°	1448.6	1450.6	1453.2	1449.3	1442.1
47.5°	1327.8	1335.6	1331.7	1334.3	1327.1
50°	1205.6	1205.6	1199.1	1201.7	1197.8
52.5°	1077.5	1067.1	1059.3	1064.5	1069.7
55°	956.0	935.2	922.2	934.6	949.5
57.5°	839.7	815.0	790.9	810.4	828.6
60°	726.6	698.0	682.4	696.7	722.0
62.5°	619.4	598.6	583.0	594.0	615.5
65°	520.6	502.4	492.6	501.1	518.0
67.5°	430.2	417.9	408.1	415.3	428.3
70°	348.4	345.1	334.1	337.3	345.1
72.5°	273.6	273.0	263.2	265.8	270.4
75°	213.2	208.6	199.5	202.8	204.7
77.5°	150.8	152.7	144.3	146.2	146.2
80°	103.3	106.6	100.1	98.8	99.4
82.5°	65.6	65.6	65.0	64.3	62.4
85°	33.8	35.1	33.8	32.5	32.5
87.5°	13.0	13.0	13.0	12.3	11.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)