

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: P412557

Luminaire Tested: **24PD-65-PB1-L935**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412557
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-45)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24PD-65-PB1-L935
Description: 6500 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

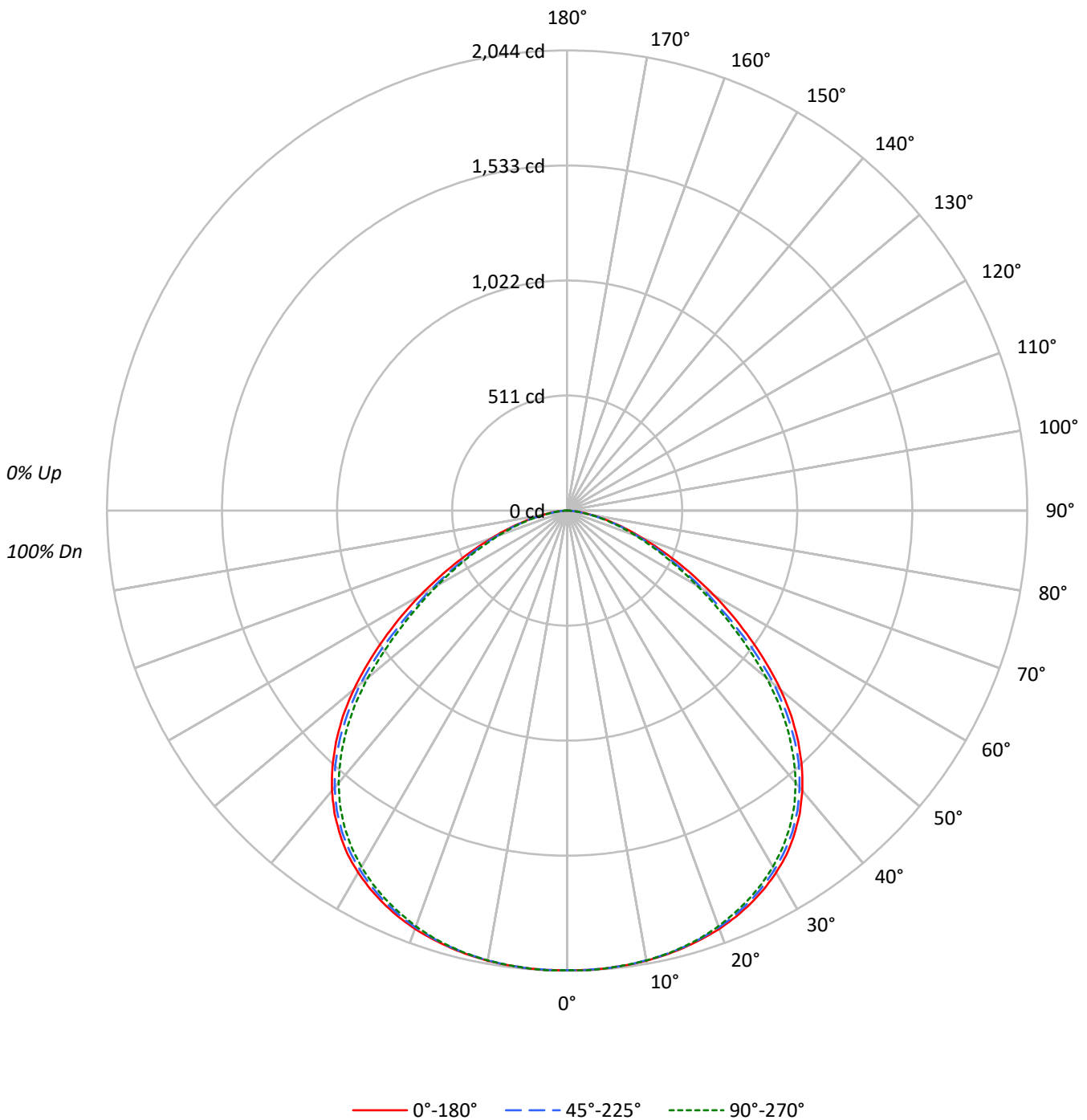
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5432.0 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.32 / 1.41
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 (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	75					73				
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65					63				
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56					54				
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49					47				
6	72	60	51	45	70	59	51	45	57	50	44	55	49	44	54	48	43					41				
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39					37				
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35					33				
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31					30				
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	39	33	29					27				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2747	2747	2747
5°	2756	2756	2756
10°	2774	2771	2772
15°	2799	2795	2793
20°	2831	2821	2814
25°	2860	2846	2830
30°	2885	2861	2840
35°	2888	2863	2828
40°	2855	2821	2774
45°	2762	2712	2642
50°	2590	2510	2418
55°	2328	2189	2099
60°	2027	1865	1794
65°	1705	1578	1509
70°	1390	1320	1266
75°	1114	1075	1029
80°	855	788	767
85°	534	517	517



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.4	3.6
10°-20°	567.3	10.4
20°-30°	883.8	16.3
30°-40°	1087.2	20.0
40°-50°	1092.1	20.1
50°-60°	841.7	15.5
60°-70°	499.7	9.2
70°-80°	222.5	4.1
80°-90°	43.4	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°	1645.4	30.3
0°-40°	2732.7	50.3
0°-60°	4666.4	85.9
0°-90°	5432.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5432.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2041	2041	2041	2041	2041	
5°	2040	2041	2040	2038	2040	194
15°	2010	2010	2007	2004	2005	568
25°	1927	1926	1917	1908	1906	889
35°	1758	1756	1743	1729	1722	1098
45°	1452	1448	1425	1401	1388	1114
55°	992	973	933	905	895	887
65°	536	512	496	477	474	535
75°	214	210	207	200	198	232
85°	35	33	34	32	34	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2041.4	2041.4	2041.4	2041.4	2041.4
2.5°	2042.5	2042.0	2042.0	2039.8	2044.1
5°	2040.3	2040.9	2040.3	2038.2	2040.3
7.5°	2036.0	2036.5	2035.5	2033.3	2035.5
10°	2030.6	2030.6	2028.4	2027.3	2029.0
12.5°	2021.4	2021.4	2019.2	2017.6	2019.2
15°	2009.5	2009.5	2006.8	2003.5	2005.2
17.5°	1994.9	1994.9	1990.6	1986.2	1987.3
20°	1977.0	1976.5	1970.5	1964.6	1965.1
22.5°	1954.3	1953.8	1946.2	1939.2	1937.0
25°	1926.7	1926.2	1917.0	1908.3	1906.2
27.5°	1894.8	1892.6	1882.3	1872.6	1870.4
30°	1856.9	1855.3	1841.8	1832.0	1827.7
32.5°	1813.1	1808.8	1796.3	1784.4	1778.5
35°	1758.4	1755.7	1743.3	1728.7	1721.6
37.5°	1696.8	1694.1	1680.5	1664.3	1656.2
40°	1625.3	1623.2	1606.4	1589.6	1579.4
42.5°	1543.1	1541.5	1523.6	1500.4	1489.5
45°	1451.7	1447.9	1425.1	1401.3	1388.4
47.5°	1349.9	1343.4	1315.9	1293.1	1279.1
50°	1237.4	1228.7	1199.0	1169.8	1155.2
52.5°	1115.7	1100.5	1069.7	1036.1	1022.1
55°	992.3	973.4	933.3	905.2	894.9
57.5°	871.6	844.1	806.2	786.2	775.9
60°	753.2	722.9	693.1	673.6	666.6
62.5°	640.1	614.6	589.2	569.7	565.4
65°	535.6	512.4	495.6	476.7	474.0
67.5°	438.3	427.4	412.3	396.1	393.9
70°	353.3	349.0	335.5	325.7	321.9
72.5°	281.9	277.6	267.8	260.8	259.7
75°	214.3	209.9	206.7	199.7	198.0
77.5°	152.6	153.1	150.4	146.6	147.7
80°	110.4	103.9	101.7	99.6	99.0
82.5°	67.6	63.8	62.2	61.7	62.8
85°	34.6	33.0	33.5	31.9	33.5
87.5°	11.9	11.9	12.4	11.9	13.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)