

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: P412549

Luminaire Tested: **24PD-60-PB1-L940**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412549
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-60-PB1-L940
Description: 6000 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

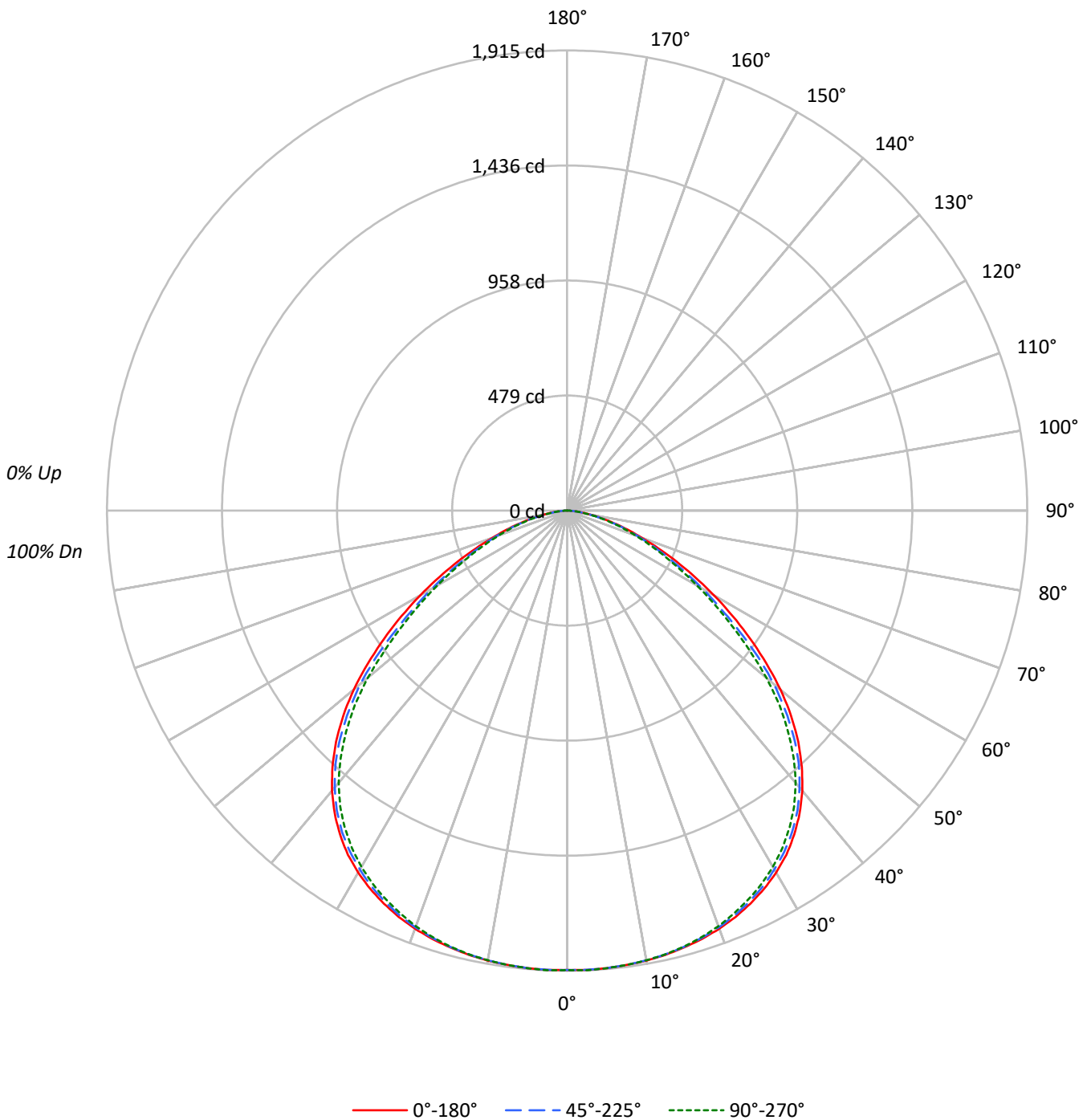
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5088.0 lumens
Efficiency: N/A
Efficacy: 112.1 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): 45.4
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	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°	2573	2573	2573
5°	2581	2581	2581
10°	2599	2596	2597
15°	2622	2618	2616
20°	2651	2643	2636
25°	2679	2666	2651
30°	2702	2680	2660
35°	2705	2682	2649
40°	2674	2643	2598
45°	2587	2540	2474
50°	2426	2351	2265
55°	2180	2051	1966
60°	1898	1747	1680
65°	1597	1478	1414
70°	1302	1236	1186
75°	1043	1006	964
80°	801	738	718
85°	500	485	485



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.0	3.6
10°-20°	531.4	10.4
20°-30°	827.8	16.3
30°-40°	1018.4	20.0
40°-50°	1022.9	20.1
50°-60°	788.4	15.5
60°-70°	468.0	9.2
70°-80°	208.4	4.1
80°-90°	40.7	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°	1541.2	30.3
0°-40°	2559.6	50.3
0°-60°	4370.9	85.9
0°-90°	5088.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5088.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1912	1912	1912	1912	1912	
5°	1911	1912	1911	1909	1911	182
15°	1882	1882	1880	1877	1878	532
25°	1805	1804	1796	1788	1785	832
35°	1647	1644	1633	1619	1613	1028
45°	1360	1356	1335	1313	1300	1044
55°	930	912	874	848	838	831
65°	502	480	464	446	444	501
75°	201	197	194	187	186	217
85°	32	31	31	30	31	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1912.1	1912.1	1912.1	1912.1	1912.1
2.5°	1913.1	1912.6	1912.6	1910.6	1914.7
5°	1911.1	1911.6	1911.1	1909.1	1911.1
7.5°	1907.1	1907.6	1906.6	1904.5	1906.6
10°	1902.0	1902.0	1900.0	1899.0	1900.5
12.5°	1893.4	1893.4	1891.4	1889.8	1891.4
15°	1882.2	1882.2	1879.7	1876.7	1878.2
17.5°	1868.6	1868.6	1864.5	1860.4	1861.5
20°	1851.8	1851.3	1845.7	1840.2	1840.7
22.5°	1830.5	1830.0	1822.9	1816.4	1814.3
25°	1804.7	1804.2	1795.6	1787.5	1785.4
27.5°	1774.8	1772.8	1763.1	1754.0	1752.0
30°	1739.3	1737.8	1725.1	1716.0	1712.0
32.5°	1698.3	1694.2	1682.6	1671.4	1665.8
35°	1647.1	1644.5	1632.9	1619.2	1612.6
37.5°	1589.3	1586.8	1574.1	1558.9	1551.3
40°	1522.4	1520.4	1504.7	1489.0	1479.3
42.5°	1445.4	1443.9	1427.1	1405.3	1395.2
45°	1359.7	1356.2	1334.9	1312.6	1300.4
47.5°	1264.5	1258.4	1232.5	1211.2	1198.1
50°	1159.0	1150.9	1123.1	1095.7	1082.0
52.5°	1045.0	1030.8	1001.9	970.5	957.3
55°	929.5	911.7	874.2	847.9	838.2
57.5°	816.4	790.6	755.1	736.4	726.7
60°	705.5	677.1	649.2	631.0	624.4
62.5°	599.5	575.7	551.9	533.7	529.6
65°	501.7	479.9	464.2	446.5	444.0
67.5°	410.5	400.4	386.2	371.0	368.9
70°	330.9	326.9	314.2	305.1	301.5
72.5°	264.0	260.0	250.9	244.3	243.3
75°	200.7	196.6	193.6	187.0	185.5
77.5°	142.9	143.4	140.9	137.3	138.4
80°	103.4	97.3	95.3	93.3	92.7
82.5°	63.3	59.8	58.3	57.8	58.8
85°	32.4	30.9	31.4	29.9	31.4
87.5°	11.1	11.1	11.7	11.1	12.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)