

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: P413266

Luminaire Tested: **24PD-80-PC3-L927**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413266
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-46)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24PD-80-PC3-L927
Description: 8000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 2700 CCT LEDS
Light Source: -
Ballast/Driver: -

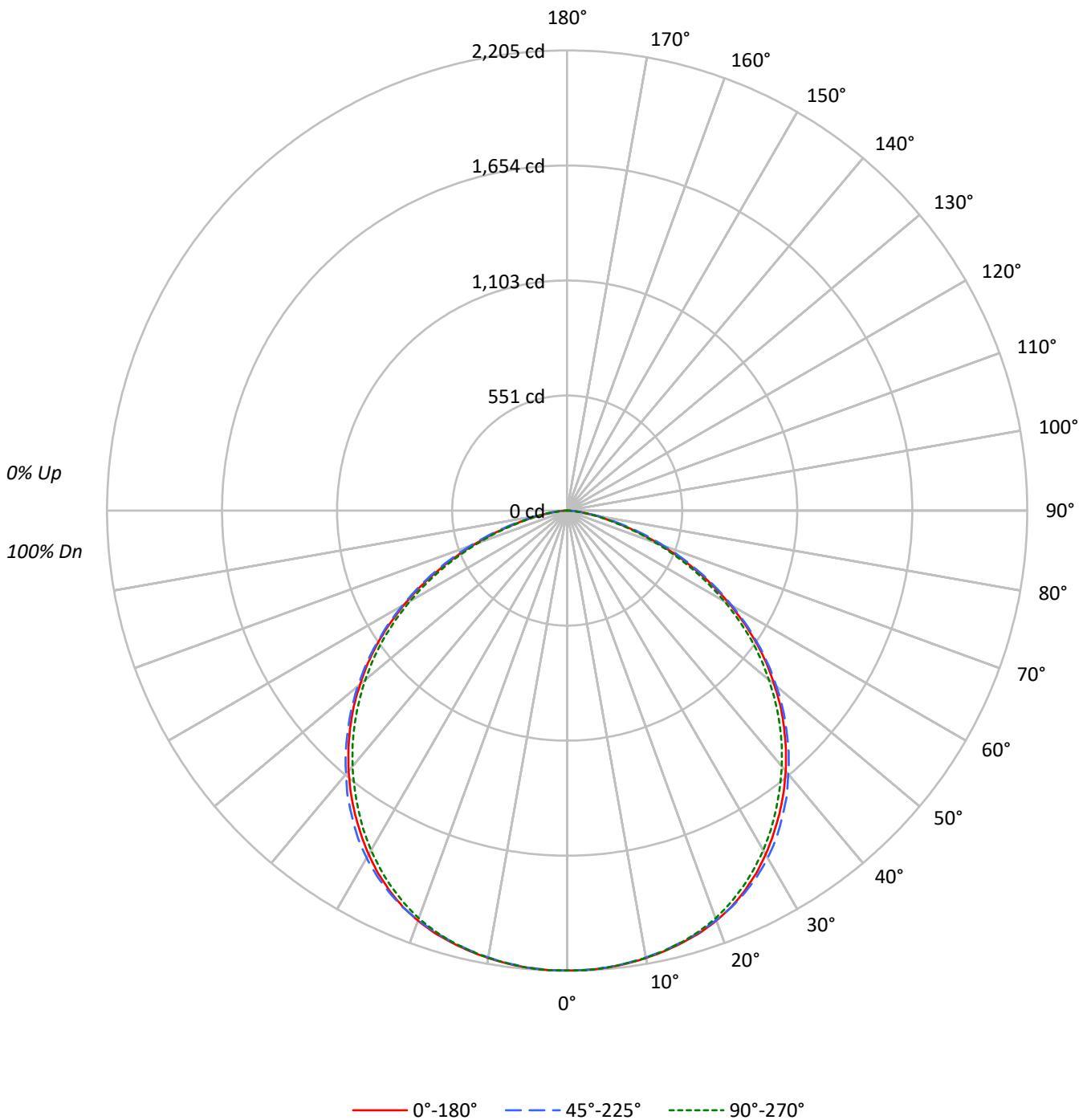
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6023.0 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.38
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 60.3
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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	109	105	101	97	107	103	99	96	99	96	93		95	92	90		91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77		83	79	75		80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65		74	69	64		71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56		66	60	55		64	59	54	52
5	77	64	56	49	75	63	55	49	61	54	48		59	53	48		57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42		54	47	42		52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38		49	42	37		47	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34		45	38	33		44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30		41	35	30		40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27		38	32	27		37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2965	2965	2965
5°	2969	2967	2969
10°	2975	2970	2973
15°	2984	2978	2979
20°	2994	2990	2977
25°	2986	2997	2955
30°	2956	2987	2919
35°	2913	2950	2868
40°	2861	2896	2810
45°	2797	2827	2739
50°	2710	2741	2644
55°	2599	2622	2521
60°	2426	2454	2342
65°	2186	2241	2101
70°	1856	1938	1782
75°	1437	1542	1371
80°	1068	1117	969
85°	659	707	613



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.0	3.5
10°-20°	604.3	10.0
20°-30°	925.4	15.4
30°-40°	1113.3	18.5
40°-50°	1135.2	18.8
50°-60°	984.2	16.3
60°-70°	682.3	11.3
70°-80°	311.6	5.2
80°-90°	57.6	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°	1738.7	28.9
0°-40°	2852.0	47.4
0°-60°	4971.5	82.5
0°-90°	6023.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6023.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2204	2204	2204	2204	2204	
5°	2198	2198	2197	2196	2199	209
15°	2142	2142	2138	2136	2139	605
25°	2011	2017	2019	2001	1990	926
35°	1773	1792	1796	1773	1746	1109
45°	1470	1488	1486	1466	1439	1133
55°	1108	1115	1118	1090	1075	987
65°	687	701	704	680	660	679
75°	276	292	297	287	264	302
85°	43	44	46	43	40	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2203.5	2203.5	2203.5	2203.5	2203.5
2.5°	2203.5	2203.5	2202.3	2201.1	2204.7
5°	2198.0	2198.0	2196.8	2195.6	2198.6
7.5°	2189.5	2188.9	2187.7	2186.4	2188.3
10°	2177.3	2176.7	2174.2	2173.6	2176.1
12.5°	2162.0	2161.4	2157.7	2157.7	2159.6
15°	2142.5	2141.9	2138.2	2136.4	2138.8
17.5°	2120.5	2119.9	2115.6	2110.7	2112.0
20°	2091.2	2091.2	2088.2	2080.8	2079.0
22.5°	2055.8	2057.6	2057.6	2043.6	2038.1
25°	2011.2	2016.7	2018.6	2000.9	1990.5
27.5°	1960.6	1969.1	1974.0	1951.4	1938.0
30°	1902.6	1916.6	1922.7	1898.3	1878.8
32.5°	1839.1	1856.8	1864.1	1840.3	1815.3
35°	1773.2	1792.1	1795.8	1772.6	1746.3
37.5°	1703.0	1722.5	1727.4	1706.7	1674.3
40°	1629.1	1648.7	1648.7	1631.6	1599.8
42.5°	1551.0	1571.8	1571.2	1550.4	1521.7
45°	1469.8	1488.1	1485.7	1465.6	1439.3
47.5°	1386.2	1397.8	1400.9	1377.0	1352.0
50°	1294.6	1306.2	1309.3	1282.4	1262.9
52.5°	1204.3	1211.6	1215.9	1184.8	1170.7
55°	1107.9	1114.6	1117.6	1090.2	1074.9
57.5°	1005.9	1014.5	1018.1	990.7	973.6
60°	901.6	910.7	911.9	886.3	870.4
62.5°	795.3	807.6	810.0	784.4	765.4
65°	686.7	701.3	703.8	680.0	659.8
67.5°	578.0	597.6	598.2	578.7	554.8
70°	471.8	493.2	492.6	476.1	452.9
72.5°	370.5	390.0	394.3	379.1	356.5
75°	276.5	291.8	296.7	286.9	263.7
77.5°	196.5	210.6	214.9	205.7	188.6
80°	137.9	138.6	144.1	136.7	125.1
82.5°	85.5	84.2	86.1	83.0	76.3
85°	42.7	43.9	45.8	43.3	39.7
87.5°	14.6	15.3	16.5	16.5	14.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)