

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: P412933

Luminaire Tested: **24PD-85-PP3-L927**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412933
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24PD-85-PP3-L927
Description: 8500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 2700 CCT LEDS
Light Source: -
Ballast/Driver: -

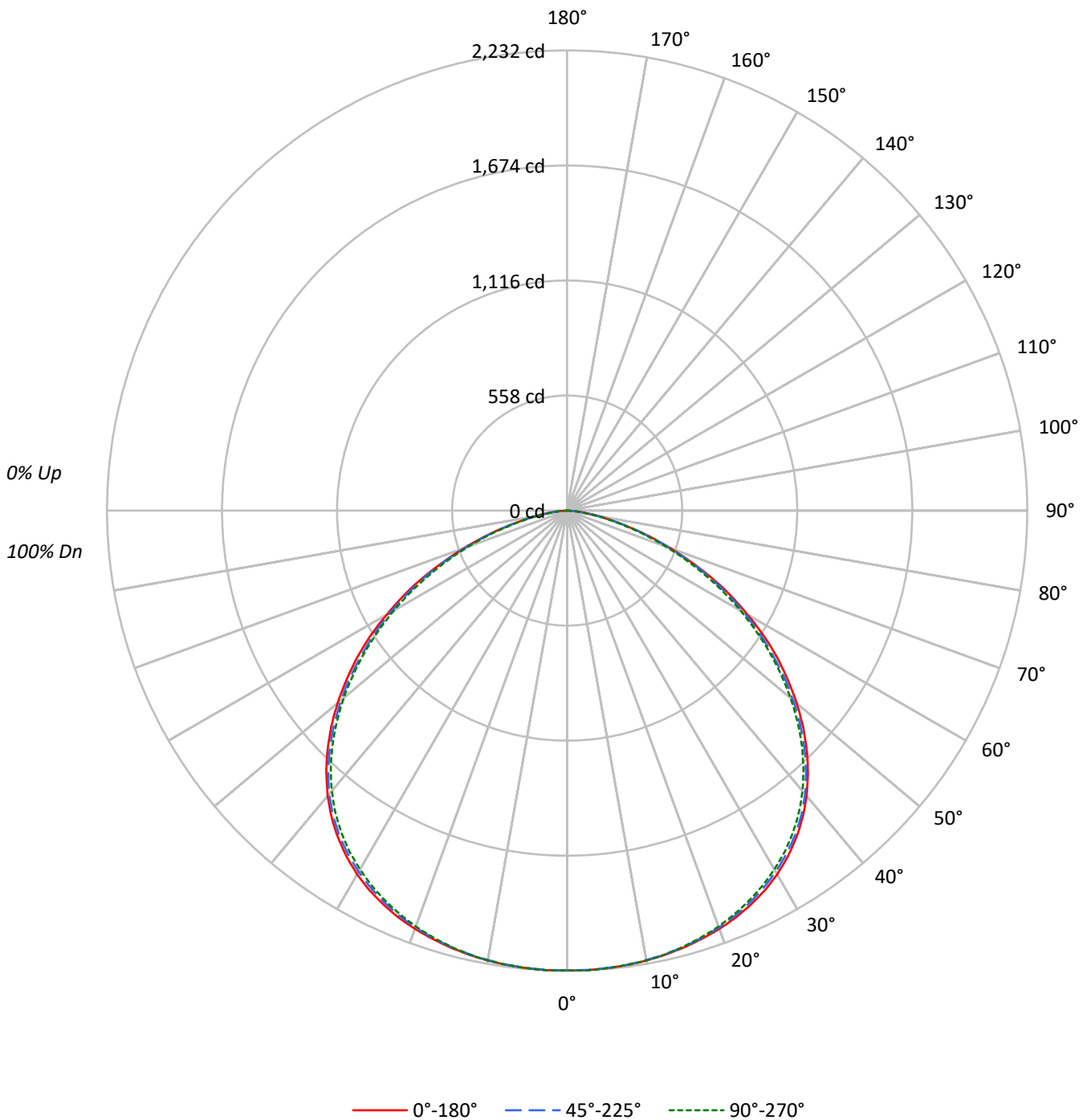
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6490.0 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.33 / 1.43
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 64.5
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	109	105	101	97	107	103	99	96	98	95	93		95	92	90		91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80	77	74	71
3	91	81	73	66	89	79	72	66	76	70	65		73	68	64		71	66	63	60
4	83	72	63	56	81	70	62	56	68	61	55		65	59	54		63	58	54	52
5	77	64	55	49	75	63	54	48	61	53	48		59	52	47		57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42		53	46	41		52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37		48	42	37		47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33		44	38	33		43	37	32	31
9	57	44	35	30	55	43	35	30	42	35	30		41	34	29		40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27		38	31	27		37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3001	3001	3001
5°	3009	3008	3010
10°	3028	3024	3027
15°	3054	3050	3048
20°	3091	3081	3074
25°	3130	3114	3099
30°	3165	3143	3123
35°	3182	3163	3134
40°	3174	3154	3119
45°	3128	3098	3063
50°	3042	2993	2962
55°	2917	2847	2810
60°	2717	2670	2616
65°	2463	2414	2344
70°	2102	2064	1998
75°	1642	1625	1548
80°	1211	1161	1096
85°	730	730	681



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.2	3.3
10°-20°	619.2	9.5
20°-30°	967.9	14.9
30°-40°	1202.9	18.5
40°-50°	1253.3	19.3
50°-60°	1087.5	16.8
60°-70°	747.8	11.5
70°-80°	337.5	5.2
80°-90°	61.8	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°	1799.3	27.7
0°-40°	3002.1	46.3
0°-60°	5342.9	82.3
0°-90°	6490.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6490.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2230	2230	2230	2230	2230	
5°	2228	2228	2227	2225	2228	212
15°	2193	2193	2190	2188	2188	620
25°	2108	2108	2098	2089	2088	973
35°	1937	1937	1926	1915	1908	1211
45°	1644	1645	1628	1616	1610	1265
55°	1243	1236	1214	1199	1198	1108
65°	774	770	758	740	736	764
75°	316	317	313	304	298	344
85°	47	47	47	47	44	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2230.4	2230.4	2230.4	2230.4	2230.4
2.5°	2231.1	2231.1	2229.8	2227.8	2232.4
5°	2227.8	2228.5	2227.2	2225.2	2228.5
7.5°	2223.3	2223.9	2222.0	2220.0	2222.6
10°	2216.2	2215.5	2213.6	2212.3	2215.5
12.5°	2205.8	2205.1	2203.2	2201.9	2204.5
15°	2192.8	2192.8	2189.6	2187.6	2188.3
17.5°	2177.2	2177.2	2172.7	2168.2	2169.5
20°	2159.1	2158.4	2151.9	2147.4	2146.8
22.5°	2136.4	2136.4	2127.3	2121.5	2119.5
25°	2108.5	2107.8	2097.5	2089.0	2087.7
27.5°	2076.7	2075.4	2063.1	2054.7	2051.4
30°	2037.2	2035.9	2022.9	2013.8	2009.9
32.5°	1990.5	1992.4	1977.5	1967.1	1963.2
35°	1937.3	1937.3	1925.6	1914.6	1908.1
37.5°	1876.3	1876.3	1865.3	1854.3	1846.5
40°	1806.9	1807.6	1795.9	1782.3	1775.8
42.5°	1729.1	1730.4	1714.8	1703.8	1696.7
45°	1644.1	1644.8	1627.9	1615.6	1609.7
47.5°	1552.0	1550.7	1531.9	1521.5	1515.7
50°	1453.4	1450.8	1430.1	1420.4	1415.2
52.5°	1350.3	1345.1	1327.0	1312.7	1308.2
55°	1243.3	1236.2	1213.5	1199.2	1197.9
57.5°	1131.8	1123.3	1104.5	1090.9	1085.7
60°	1009.8	1007.9	992.3	976.1	972.2
62.5°	895.7	889.8	876.2	856.8	854.8
65°	773.7	770.5	758.2	740.0	736.1
67.5°	647.9	651.2	640.8	624.6	619.4
70°	534.4	536.4	524.7	509.8	507.8
72.5°	420.3	423.5	413.8	404.1	402.1
75°	315.9	317.1	312.6	304.2	297.7
77.5°	224.4	228.9	223.8	217.9	212.7
80°	156.3	149.2	149.8	147.2	141.4
82.5°	94.0	90.8	90.2	87.6	85.0
85°	47.3	46.7	47.3	46.7	44.1
87.5°	15.6	16.9	17.5	17.5	16.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)