

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: P413149

Luminaire Tested: **22PD-80-PC3-L927**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413149
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-15)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22PD-80-PC3-L927
Description: 8000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 2700 CCT LEDS
Light Source: -
Ballast/Driver: -

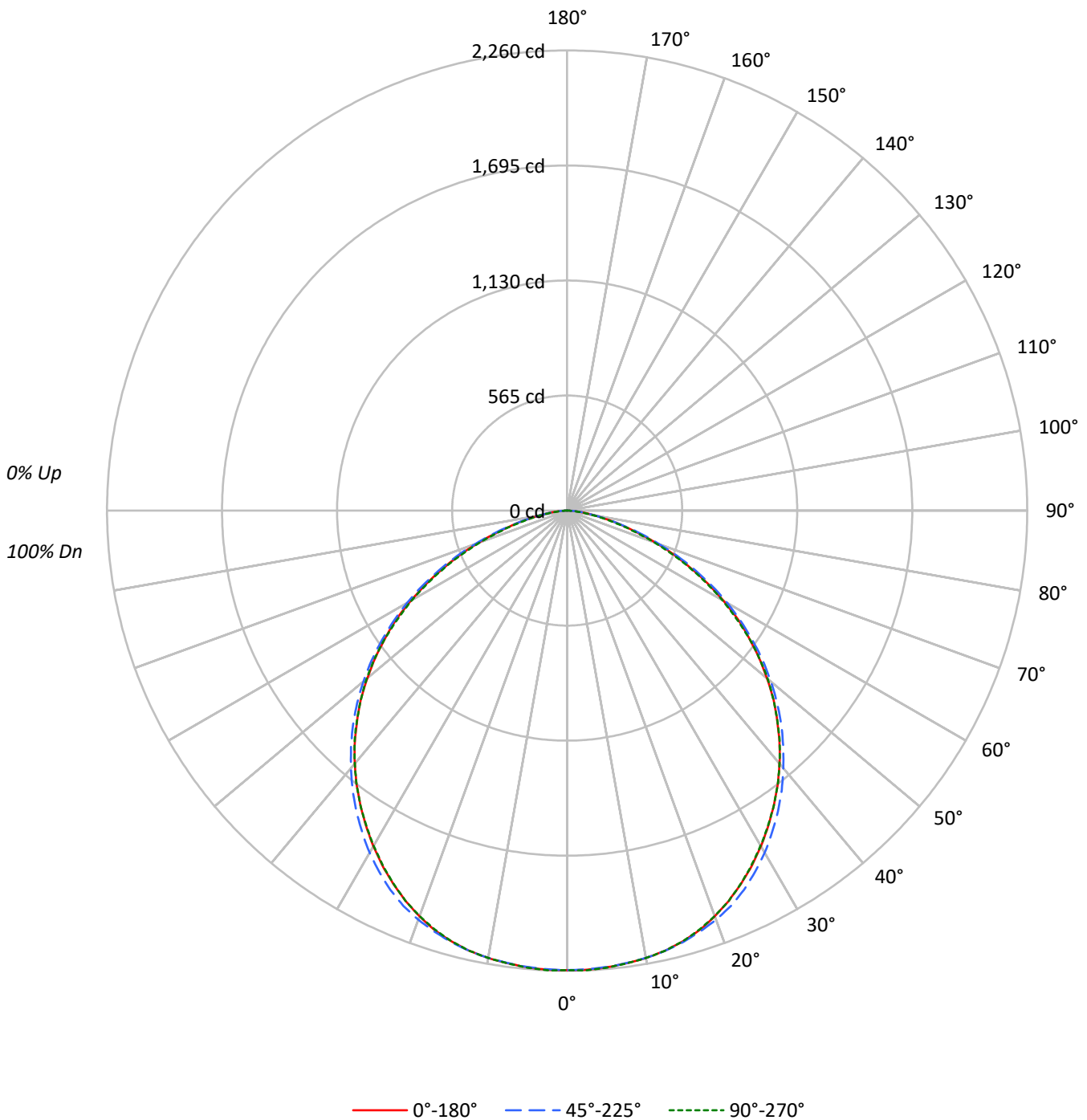
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6064.0 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 72.6
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	110	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	76		80	77	74	72
3	91	81	73	67	89	80	72	67	77	70	65		74	69	64		71	67	63	61
4	84	72	64	57	82	71	63	57	68	61	56		66	60	55		64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	49		59	53	48		58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43		54	47	42		52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38		49	42	37		48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34		45	38	34		44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30		41	35	30		40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28		38	32	28		38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6074	6074	6074
5°	6082	6078	6086
10°	6097	6095	6097
15°	6104	6113	6103
20°	6073	6123	6069
25°	6003	6101	5999
30°	5914	6030	5905
35°	5811	5927	5811
40°	5702	5803	5702
45°	5552	5661	5560
50°	5362	5467	5383
55°	5113	5214	5113
60°	4768	4888	4737
65°	4279	4430	4224
70°	3660	3790	3553
75°	2904	2986	2754
80°	2081	2159	1980
85°	1374	1417	1284



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.2	3.5
10°-20°	618.6	10.2
20°-30°	938.5	15.5
30°-40°	1120.8	18.5
40°-50°	1139.9	18.8
50°-60°	986.0	16.3
60°-70°	678.5	11.2
70°-80°	307.9	5.1
80°-90°	59.6	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°	1771.3	29.2
0°-40°	2892.2	47.7
0°-60°	5018.0	82.8
0°-90°	6064.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6064.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2257	2257	2257	2257	2257	
5°	2252	2249	2250	2250	2253	214
15°	2191	2193	2194	2190	2190	618
25°	2022	2040	2055	2036	2020	931
35°	1769	1801	1804	1798	1769	1107
45°	1459	1486	1488	1486	1461	1125
55°	1090	1108	1111	1109	1090	974
65°	672	691	696	690	663	667
75°	279	290	287	284	265	300
85°	44	47	46	44	42	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2257.3	2257.3	2257.3	2257.3	2257.3
2.5°	2257.3	2254.4	2255.1	2255.8	2260.1
5°	2251.5	2249.4	2250.1	2250.1	2252.9
7.5°	2242.2	2241.5	2241.5	2240.7	2242.9
10°	2231.4	2230.0	2230.7	2230.0	2231.4
12.5°	2214.9	2214.9	2215.6	2213.5	2214.9
15°	2191.2	2192.6	2194.1	2190.5	2190.5
17.5°	2161.0	2164.6	2168.2	2161.8	2158.2
20°	2120.8	2129.5	2138.1	2128.0	2119.4
22.5°	2074.2	2088.5	2101.5	2085.7	2074.2
25°	2021.8	2039.7	2054.8	2036.1	2020.3
27.5°	1965.0	1985.1	1999.5	1983.7	1962.2
30°	1903.3	1927.7	1940.6	1925.6	1900.4
32.5°	1837.2	1866.0	1873.9	1864.5	1835.8
35°	1769.0	1800.6	1804.2	1797.8	1769.0
37.5°	1698.0	1728.1	1731.0	1727.4	1698.0
40°	1623.3	1651.3	1652.0	1652.0	1623.3
42.5°	1543.6	1570.9	1570.9	1570.2	1545.8
45°	1458.9	1485.5	1487.6	1486.2	1461.0
47.5°	1374.9	1395.0	1398.6	1395.7	1373.5
50°	1280.8	1301.7	1306.0	1303.1	1285.9
52.5°	1187.5	1206.9	1211.2	1209.0	1189.7
55°	1089.9	1108.5	1111.4	1109.2	1089.9
57.5°	995.8	1008.0	1010.9	1006.6	982.2
60°	886.0	903.2	908.2	903.2	880.2
62.5°	779.7	798.4	802.7	795.5	771.1
65°	672.0	690.7	695.7	690.0	663.4
67.5°	570.1	583.7	588.0	581.5	557.1
70°	465.2	482.5	481.7	473.1	451.6
72.5°	361.8	385.5	381.2	376.2	352.5
75°	279.3	290.1	287.2	284.3	264.9
77.5°	199.6	212.5	205.3	206.1	189.5
80°	134.3	146.5	139.3	136.4	127.8
82.5°	85.4	90.5	89.0	87.6	79.7
85°	44.5	47.4	45.9	44.5	41.6
87.5°	17.2	18.7	17.2	17.2	15.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)