

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: P412465

Luminaire Tested: **22PD-80-PB1-L927**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412465
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-14)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22PD-80-PB1-L927
Description: 8000 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 2700 CCT LEDS
Light Source: -
Ballast/Driver: -

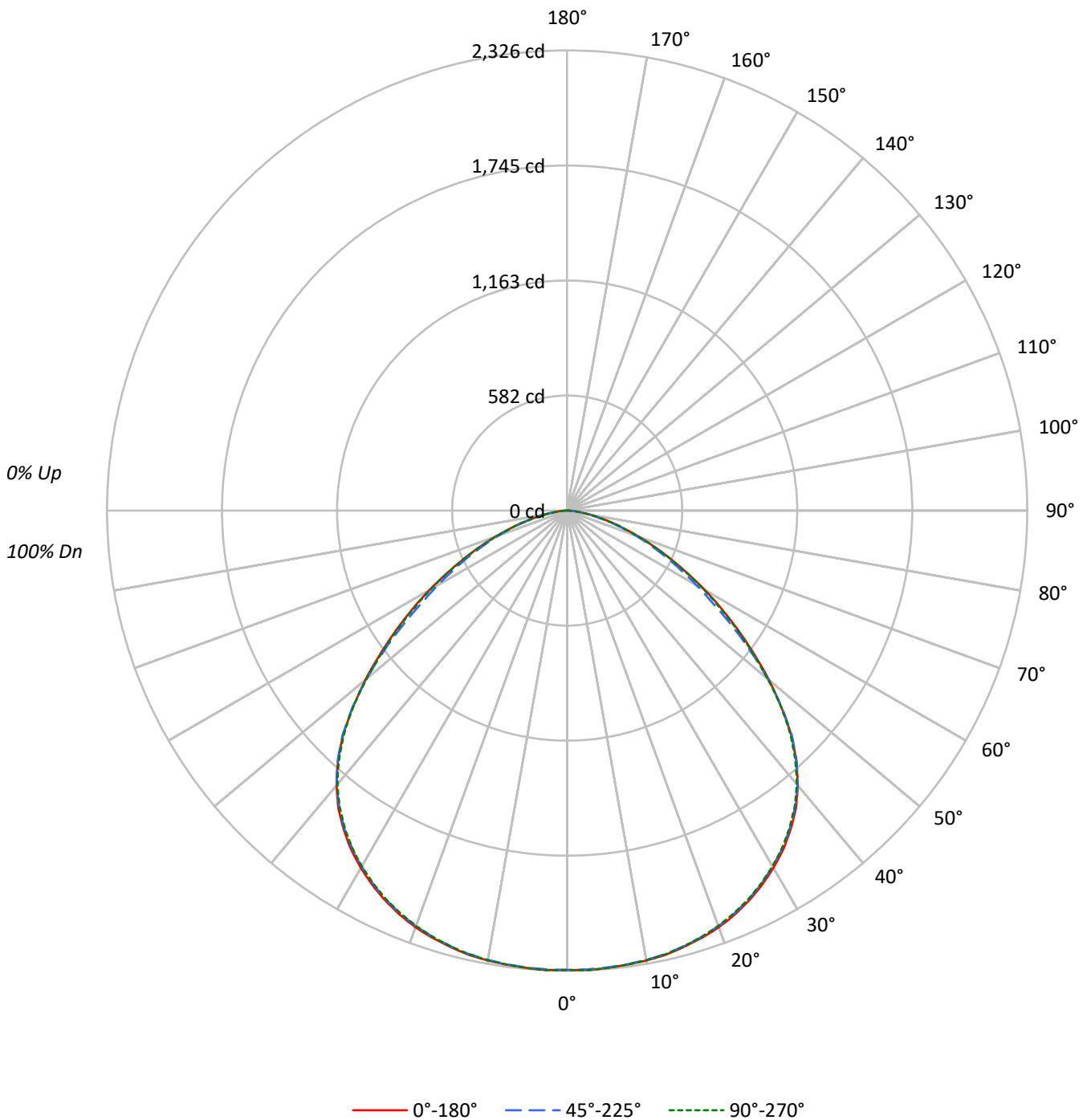
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6096.0 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.32 / 1.4
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 (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

TEST NUMBER: P412465
CATALOG NUMBER: 22PD-80-PB1-L927

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	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	76	73
3	92	83	75	69	90	81	74	68	78	72	67		76	70	66		73	69	65	63
4	85	74	65	59	83	72	65	59	70	63	58		68	62	57		66	61	56	54
5	78	66	58	51	76	65	57	51	63	56	50		61	55	50		59	54	49	47
6	72	60	51	45	71	59	51	45	57	50	44		55	49	44		54	48	44	42
7	67	54	46	40	66	53	45	40	52	45	39		51	44	39		49	43	39	37
8	63	50	41	36	61	49	41	36	48	40	35		46	40	35		45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32		43	36	32		42	36	32	30
10	55	42	34	29	54	41	34	29	41	34	29		40	33	29		39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6248	6248	6248
5°	6268	6263	6270
10°	6309	6302	6305
15°	6361	6351	6351
20°	6419	6401	6396
25°	6459	6440	6434
30°	6481	6454	6450
35°	6467	6449	6437
40°	6371	6363	6343
45°	6091	6110	6063
50°	5576	5546	5539
55°	4955	4780	4921
60°	4320	4057	4293
65°	3662	3465	3643
70°	3028	2903	2999
75°	2449	2292	2352
80°	1770	1714	1703
85°	1152	1152	1108



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.9	3.6
10°-20°	644.4	10.6
20°-30°	999.9	16.4
30°-40°	1226.1	20.1
40°-50°	1225.7	20.1
50°-60°	928.4	15.2
60°-70°	556.8	9.1
70°-80°	245.2	4.0
80°-90°	48.6	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°	1865.1	30.6
0°-40°	3091.3	50.7
0°-60°	5245.4	86.0
0°-90°	6096.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6096.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2322	2322	2322	2322	2322	
5°	2320	2318	2318	2318	2321	221
15°	2283	2281	2280	2278	2280	646
25°	2176	2171	2169	2165	2167	1003
35°	1969	1968	1963	1962	1959	1230
45°	1600	1602	1605	1601	1593	1225
55°	1056	1033	1019	1032	1049	947
65°	575	555	544	554	572	575
75°	236	230	220	224	226	251
85°	37	39	37	36	36	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2322.0	2322.0	2322.0	2322.0	2322.0
2.5°	2324.1	2320.5	2321.2	2321.2	2325.6
5°	2320.5	2317.7	2318.4	2317.7	2321.2
7.5°	2315.5	2312.6	2313.3	2312.6	2314.8
10°	2309.0	2306.2	2306.2	2304.7	2307.6
12.5°	2300.4	2296.8	2295.4	2294.7	2296.8
15°	2283.2	2281.0	2279.6	2278.2	2279.6
17.5°	2264.5	2260.9	2259.5	2256.6	2259.5
20°	2241.5	2236.5	2235.1	2232.9	2233.6
22.5°	2211.4	2207.1	2204.9	2201.3	2202.8
25°	2175.5	2171.2	2169.0	2165.4	2166.9
27.5°	2133.8	2131.0	2126.0	2123.1	2123.8
30°	2085.7	2082.9	2077.1	2075.7	2075.7
32.5°	2032.6	2029.0	2024.0	2022.6	2021.8
35°	1968.7	1968.0	1963.0	1961.5	1959.4
37.5°	1899.1	1897.6	1891.9	1890.5	1888.3
40°	1813.6	1812.2	1811.5	1808.6	1805.7
42.5°	1714.5	1716.7	1718.1	1712.4	1706.6
45°	1600.4	1602.5	1605.4	1601.1	1593.2
47.5°	1466.8	1475.5	1471.1	1474.0	1466.1
50°	1331.9	1331.9	1324.7	1327.6	1323.2
52.5°	1190.4	1178.9	1170.3	1176.1	1181.8
55°	1056.2	1033.2	1018.8	1032.5	1049.0
57.5°	927.6	900.4	873.8	895.3	915.4
60°	802.7	771.1	753.9	769.7	797.7
62.5°	684.2	661.3	644.0	656.2	679.9
65°	575.1	555.0	544.2	553.6	572.2
67.5°	475.3	461.7	450.9	458.8	473.2
70°	384.8	381.2	369.0	372.6	381.2
72.5°	302.3	301.6	290.8	293.7	298.7
75°	235.5	230.5	220.4	224.0	226.2
77.5°	166.6	168.7	159.4	161.5	161.5
80°	114.2	117.7	110.6	109.1	109.9
82.5°	72.5	72.5	71.8	71.1	68.9
85°	37.3	38.8	37.3	35.9	35.9
87.5°	14.4	14.4	14.4	13.6	12.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)