

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: P413101

Luminaire Tested: **22PD-55-PC3-L835**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413101
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-55-PC3-L835
Description: 5500 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

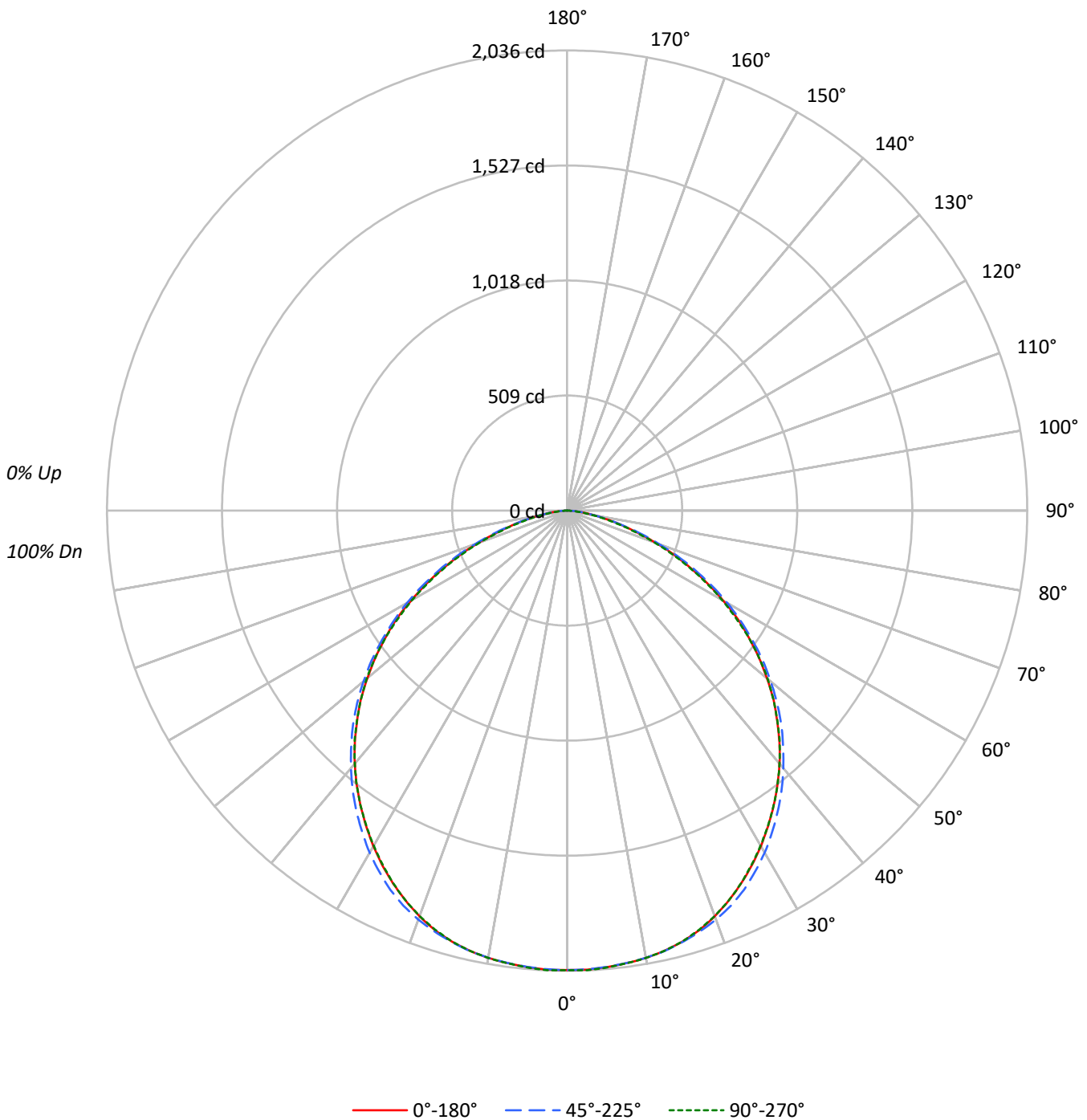
Lumens per Lamp: N/A
Luminaire Lumens: 5462.0 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 46.2
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°	5471	5471	5471
5°	5478	5475	5482
10°	5492	5490	5492
15°	5499	5506	5497
20°	5470	5515	5467
25°	5407	5495	5403
30°	5327	5432	5319
35°	5234	5339	5234
40°	5136	5227	5136
45°	5001	5099	5008
50°	4830	4924	4849
55°	4606	4697	4606
60°	4295	4403	4267
65°	3854	3990	3805
70°	3297	3414	3201
75°	2616	2690	2481
80°	1874	1945	1784
85°	1238	1278	1158



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.9	3.5
10°-20°	557.2	10.2
20°-30°	845.4	15.5
30°-40°	1009.6	18.5
40°-50°	1026.7	18.8
50°-60°	888.1	16.3
60°-70°	611.1	11.2
70°-80°	277.4	5.1
80°-90°	53.7	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°	1595.5	29.2
0°-40°	2605.0	47.7
0°-60°	4519.9	82.8
0°-90°	5462.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5462.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2033	2033	2033	2033	2033	
5°	2028	2026	2027	2027	2029	193
15°	1974	1975	1976	1973	1973	557
25°	1821	1837	1851	1834	1820	839
35°	1593	1622	1625	1619	1593	997
45°	1314	1338	1340	1339	1316	1013
55°	982	998	1001	999	982	877
65°	605	622	627	622	598	601
75°	252	261	259	256	239	271
85°	40	43	41	40	38	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2033.2	2033.2	2033.2	2033.2	2033.2
2.5°	2033.2	2030.6	2031.2	2031.9	2035.8
5°	2028.0	2026.1	2026.7	2026.7	2029.3
7.5°	2019.6	2018.9	2018.9	2018.3	2020.2
10°	2009.9	2008.6	2009.2	2008.6	2009.9
12.5°	1995.0	1995.0	1995.7	1993.7	1995.0
15°	1973.7	1975.0	1976.3	1973.0	1973.0
17.5°	1946.5	1949.7	1953.0	1947.2	1943.9
20°	1910.3	1918.1	1925.8	1916.8	1909.0
22.5°	1868.3	1881.2	1892.8	1878.6	1868.3
25°	1821.1	1837.2	1850.8	1834.0	1819.8
27.5°	1770.0	1788.1	1801.0	1786.8	1767.4
30°	1714.4	1736.3	1748.0	1734.4	1711.8
32.5°	1654.9	1680.7	1687.8	1679.4	1653.6
35°	1593.4	1621.9	1625.1	1619.3	1593.4
37.5°	1529.4	1556.6	1559.1	1555.9	1529.4
40°	1462.1	1487.4	1488.0	1488.0	1462.1
42.5°	1390.4	1414.9	1414.9	1414.3	1392.3
45°	1314.1	1338.0	1339.9	1338.6	1316.0
47.5°	1238.4	1256.5	1259.7	1257.1	1237.1
50°	1153.7	1172.4	1176.3	1173.7	1158.2
52.5°	1069.6	1087.1	1091.0	1089.0	1071.6
55°	981.7	998.5	1001.1	999.1	981.7
57.5°	896.9	907.9	910.5	906.6	884.7
60°	798.0	813.5	818.1	813.5	792.8
62.5°	702.3	719.1	723.0	716.5	694.5
65°	605.3	622.1	626.6	621.5	597.5
67.5°	513.5	525.8	529.6	523.8	501.8
70°	419.0	434.6	433.9	426.2	406.8
72.5°	325.9	347.3	343.4	338.9	317.5
75°	251.6	261.3	258.7	256.1	238.6
77.5°	179.8	191.4	185.0	185.6	170.7
80°	120.9	131.9	125.5	122.9	115.1
82.5°	77.0	81.5	80.2	78.9	71.8
85°	40.1	42.7	41.4	40.1	37.5
87.5°	15.5	16.8	15.5	15.5	14.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)