

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: P413092

Luminaire Tested: **22PD-50-PC3-L835**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413092
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-50-PC3-L835
Description: 5000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

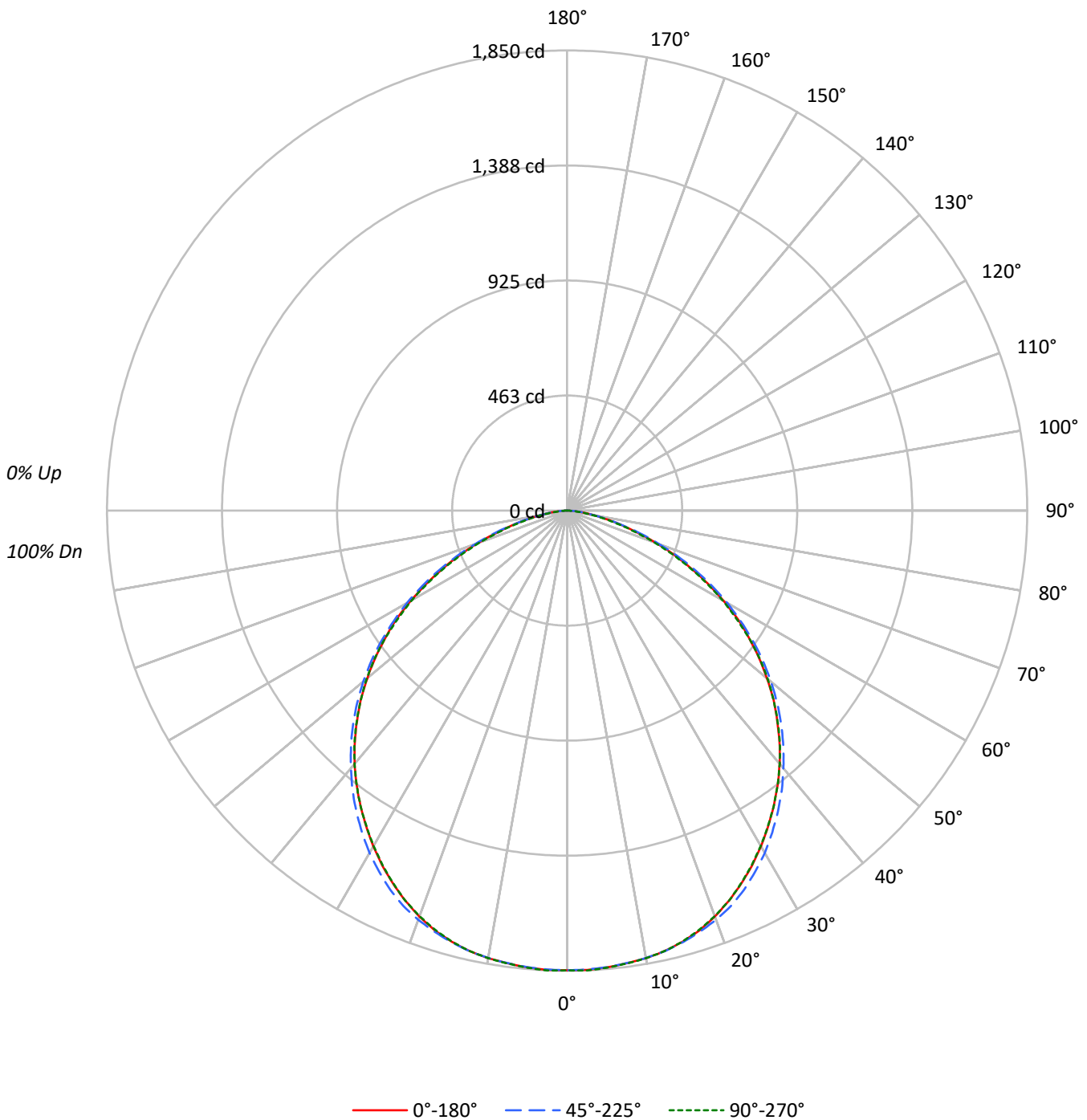
Lumens per Lamp: N/A
Luminaire Lumens: 4965.0 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 42.5
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

TEST NUMBER: P413092

CATALOG NUMBER: 22PD-50-PC3-L835

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°	4973	4973	4973
5°	4980	4977	4983
10°	4992	4991	4992
15°	4998	5005	4997
20°	4973	5013	4969
25°	4915	4995	4912
30°	4842	4937	4835
35°	4758	4853	4758
40°	4669	4751	4669
45°	4546	4635	4553
50°	4390	4477	4407
55°	4186	4269	4186
60°	3904	4002	3879
65°	3503	3627	3459
70°	2997	3103	2910
75°	2378	2444	2255
80°	1703	1767	1621
85°	1124	1161	1053



TEST NUMBER: P413092

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.4	3.5
10°-20°	506.5	10.2
20°-30°	768.4	15.5
30°-40°	917.7	18.5
40°-50°	933.3	18.8
50°-60°	807.3	16.3
60°-70°	555.5	11.2
70°-80°	252.1	5.1
80°-90°	48.8	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°	1450.3	29.2
0°-40°	2368.0	47.7
0°-60°	4108.6	82.8
0°-90°	4965.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4965.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1848	1848	1848	1848	1848	
5°	1844	1842	1842	1842	1845	175
15°	1794	1795	1796	1794	1794	506
25°	1655	1670	1682	1667	1654	762
35°	1448	1474	1477	1472	1448	906
45°	1194	1216	1218	1217	1196	921
55°	892	908	910	908	892	797
65°	550	566	570	565	543	546
75°	229	238	235	233	217	246
85°	36	39	38	36	34	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1848.2	1848.2	1848.2	1848.2	1848.2
2.5°	1848.2	1845.8	1846.4	1847.0	1850.5
5°	1843.5	1841.7	1842.3	1842.3	1844.6
7.5°	1835.8	1835.2	1835.2	1834.6	1836.4
10°	1827.0	1825.8	1826.4	1825.8	1827.0
12.5°	1813.5	1813.5	1814.1	1812.3	1813.5
15°	1794.1	1795.3	1796.4	1793.5	1793.5
17.5°	1769.4	1772.3	1775.3	1770.0	1767.0
20°	1736.5	1743.5	1750.6	1742.4	1735.3
22.5°	1698.3	1710.0	1720.6	1707.7	1698.3
25°	1655.4	1670.0	1682.4	1667.1	1654.2
27.5°	1608.9	1625.4	1637.1	1624.2	1606.6
30°	1558.4	1578.3	1588.9	1576.6	1556.0
32.5°	1504.3	1527.8	1534.3	1526.6	1503.1
35°	1448.4	1474.3	1477.2	1471.9	1448.4
37.5°	1390.2	1414.9	1417.3	1414.3	1390.2
40°	1329.1	1352.0	1352.6	1352.6	1329.1
42.5°	1263.9	1286.2	1286.2	1285.6	1265.6
45°	1194.5	1216.2	1218.0	1216.8	1196.3
47.5°	1125.7	1142.2	1145.1	1142.8	1124.5
50°	1048.7	1065.8	1069.3	1066.9	1052.8
52.5°	972.3	988.2	991.7	989.9	974.0
55°	892.3	907.6	910.0	908.2	892.3
57.5°	815.3	825.3	827.7	824.1	804.2
60°	725.4	739.5	743.6	739.5	720.7
62.5°	638.4	653.7	657.2	651.3	631.3
65°	550.2	565.5	569.6	564.9	543.2
67.5°	466.7	477.9	481.4	476.1	456.2
70°	380.9	395.0	394.4	387.4	369.8
72.5°	296.3	315.7	312.1	308.0	288.6
75°	228.7	237.5	235.1	232.8	216.9
77.5°	163.4	174.0	168.1	168.7	155.2
80°	109.9	119.9	114.0	111.7	104.6
82.5°	70.0	74.1	72.9	71.7	65.3
85°	36.4	38.8	37.6	36.4	34.1
87.5°	14.1	15.3	14.1	14.1	12.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)