

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: P413182

Luminaire Tested: **24PD-35-PC3-L835**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413182
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-46)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24PD-35-PC3-L835
Description: 3500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

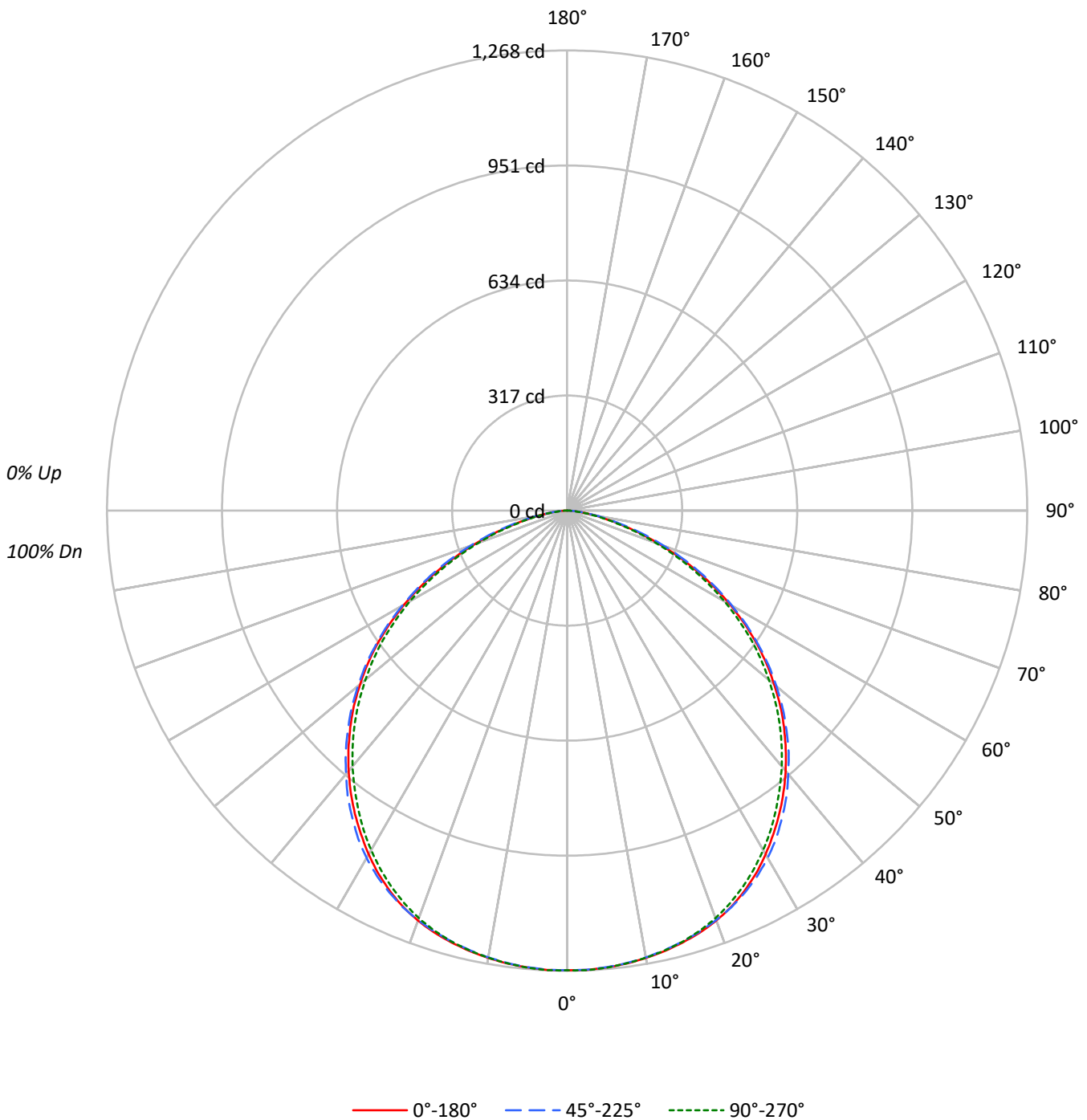
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3463.0 lumens
Efficiency: N/A
Efficacy: 134.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.38
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.8
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	109	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	75	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	47	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1705	1705	1705
5°	1707	1706	1707
10°	1710	1708	1709
15°	1716	1712	1713
20°	1722	1719	1711
25°	1717	1723	1699
30°	1700	1718	1678
35°	1675	1696	1649
40°	1645	1665	1616
45°	1608	1625	1575
50°	1558	1576	1520
55°	1494	1507	1450
60°	1395	1411	1347
65°	1257	1288	1208
70°	1067	1114	1024
75°	827	887	788
80°	614	642	557
85°	380	406	352



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.2	3.5
10°-20°	347.4	10.0
20°-30°	532.1	15.4
30°-40°	640.1	18.5
40°-50°	652.7	18.8
50°-60°	565.9	16.3
60°-70°	392.3	11.3
70°-80°	179.2	5.2
80°-90°	33.1	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°	999.7	28.9
0°-40°	1639.8	47.4
0°-60°	2858.4	82.5
0°-90°	3463.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3463.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1267	1267	1267	1267	1267	
5°	1264	1264	1263	1262	1264	120
15°	1232	1232	1229	1228	1230	348
25°	1156	1160	1161	1150	1144	532
35°	1020	1030	1032	1019	1004	637
45°	845	856	854	843	828	651
55°	637	641	643	627	618	568
65°	395	403	405	391	379	390
75°	159	168	171	165	152	174
85°	25	25	26	25	23	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1266.9	1266.9	1266.9	1266.9	1266.9
2.5°	1266.9	1266.9	1266.2	1265.5	1267.6
5°	1263.8	1263.8	1263.1	1262.4	1264.1
7.5°	1258.9	1258.5	1257.8	1257.1	1258.2
10°	1251.9	1251.5	1250.1	1249.7	1251.1
12.5°	1243.1	1242.7	1240.6	1240.6	1241.7
15°	1231.8	1231.5	1229.4	1228.3	1229.7
17.5°	1219.2	1218.9	1216.4	1213.6	1214.3
20°	1202.4	1202.4	1200.6	1196.4	1195.3
22.5°	1182.0	1183.1	1183.1	1175.0	1171.8
25°	1156.4	1159.6	1160.6	1150.4	1144.5
27.5°	1127.3	1132.2	1135.0	1122.0	1114.3
30°	1093.9	1102.0	1105.5	1091.5	1080.2
32.5°	1057.4	1067.6	1071.8	1058.1	1043.7
35°	1019.5	1030.4	1032.5	1019.2	1004.1
37.5°	979.2	990.4	993.2	981.3	962.7
40°	936.7	947.9	947.9	938.1	919.8
42.5°	891.8	903.7	903.4	891.4	874.9
45°	845.1	855.6	854.2	842.6	827.5
47.5°	797.0	803.7	805.4	791.8	777.4
50°	744.4	751.0	752.8	737.4	726.1
52.5°	692.4	696.6	699.1	681.2	673.1
55°	637.0	640.8	642.6	626.8	618.0
57.5°	578.4	583.3	585.4	569.6	559.8
60°	518.4	523.6	524.3	509.6	500.5
62.5°	457.3	464.3	465.7	451.0	440.1
65°	394.8	403.2	404.6	391.0	379.4
67.5°	332.4	343.6	343.9	332.7	319.0
70°	271.3	283.6	283.2	273.7	260.4
72.5°	213.0	224.3	226.7	217.9	205.0
75°	159.0	167.8	170.6	164.9	151.6
77.5°	113.0	121.1	123.5	118.3	108.4
80°	79.3	79.7	82.8	78.6	71.9
82.5°	49.1	48.4	49.5	47.7	43.9
85°	24.6	25.3	26.3	24.9	22.8
87.5°	8.4	8.8	9.5	9.5	8.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)