

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: P412497

Luminaire Tested: **24PD-35-PB1-L830**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412497
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-45)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24PD-35-PB1-L830
Description: 3500 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

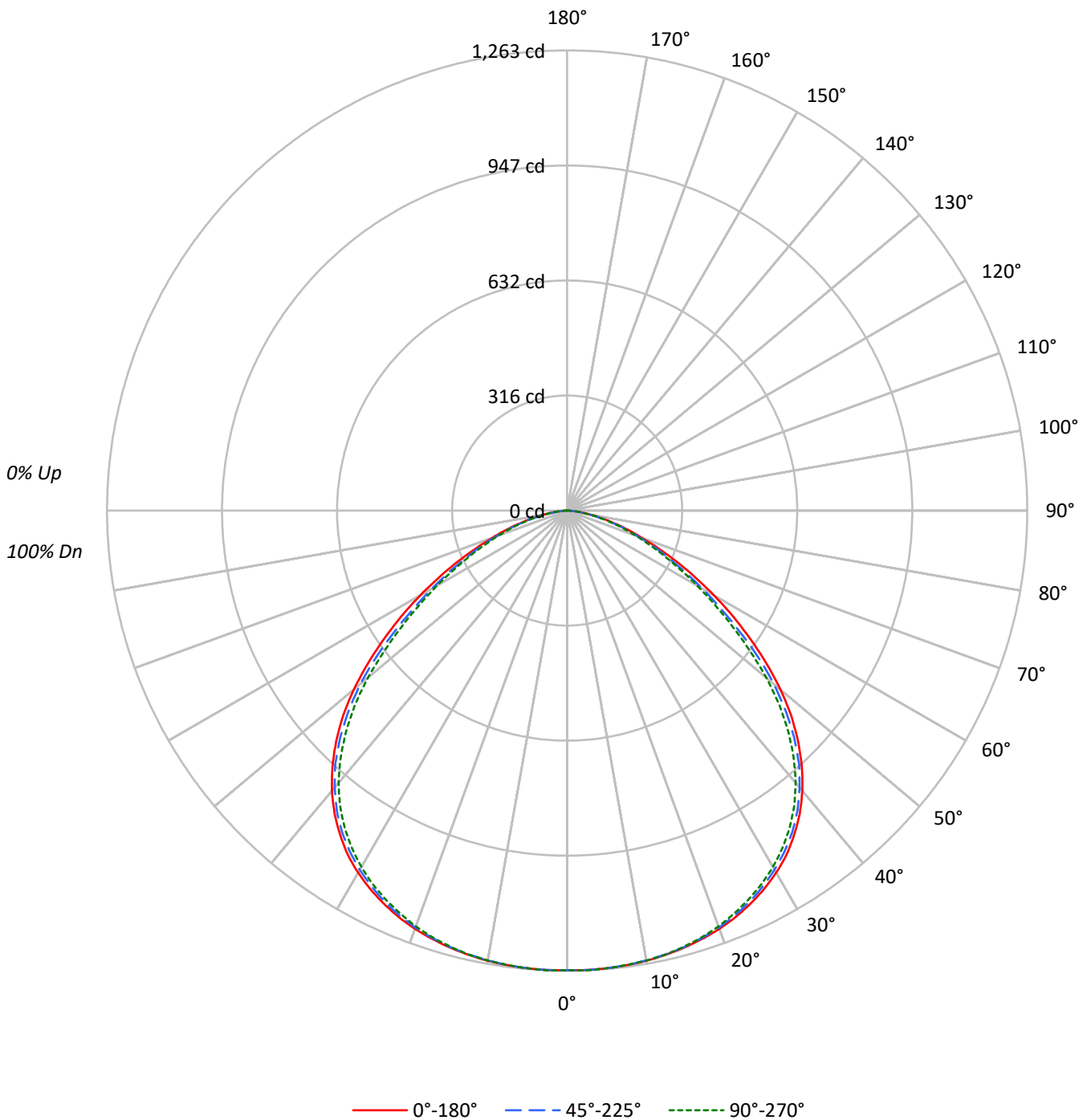
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3357.0 lumens
Efficiency: N/A
Efficacy: 130.1 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.32 / 1.41
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 (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: P412497
CATALOG NUMBER: 24PD-35-PB1-L830

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	75	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	72	60	51	45	70	59	51	45	57	50	44	55	49	44	54	48	43	41
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1697	1697	1697
5°	1703	1703	1703
10°	1715	1713	1713
15°	1730	1728	1726
20°	1749	1744	1739
25°	1768	1759	1749
30°	1783	1768	1755
35°	1785	1770	1748
40°	1764	1744	1714
45°	1707	1676	1633
50°	1601	1551	1494
55°	1438	1353	1297
60°	1253	1153	1109
65°	1054	975	933
70°	859	816	783
75°	688	664	636
80°	528	487	474
85°	330	320	320



TEST NUMBER: P412497

CATALOG NUMBER: 24PD-35-PB1-L830

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.1	3.6
10°-20°	350.6	10.4
20°-30°	546.2	16.3
30°-40°	671.9	20.0
40°-50°	674.9	20.1
50°-60°	520.2	15.5
60°-70°	308.8	9.2
70°-80°	137.5	4.1
80°-90°	26.9	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°	1016.9	30.3
0°-40°	1688.8	50.3
0°-60°	2883.8	85.9
0°-90°	3357.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3357.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1262	1262	1262	1262	1262	
5°	1261	1261	1261	1260	1261	120
15°	1242	1242	1240	1238	1239	351
25°	1191	1190	1185	1179	1178	549
35°	1087	1085	1077	1068	1064	679
45°	897	895	881	866	858	689
55°	613	602	577	559	553	548
65°	331	317	306	295	293	331
75°	132	130	128	123	122	143
85°	21	20	21	20	21	28
90°	0	0	0	0	0	



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CATALOG NUMBER: 24PD-35-PB1-L830

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1261.6	1261.6	1261.6	1261.6	1261.6
2.5°	1262.3	1261.9	1261.9	1260.6	1263.3
5°	1260.9	1261.3	1260.9	1259.6	1260.9
7.5°	1258.3	1258.6	1257.9	1256.6	1257.9
10°	1254.9	1254.9	1253.6	1252.9	1253.9
12.5°	1249.2	1249.2	1247.9	1246.9	1247.9
15°	1241.9	1241.9	1240.2	1238.2	1239.2
17.5°	1232.8	1232.8	1230.2	1227.5	1228.2
20°	1221.8	1221.5	1217.8	1214.1	1214.5
22.5°	1207.8	1207.4	1202.8	1198.4	1197.1
25°	1190.7	1190.4	1184.7	1179.3	1178.0
27.5°	1171.0	1169.6	1163.3	1157.3	1155.9
30°	1147.6	1146.6	1138.2	1132.2	1129.5
32.5°	1120.5	1117.8	1110.1	1102.8	1099.1
35°	1086.7	1085.1	1077.4	1068.3	1064.0
37.5°	1048.6	1046.9	1038.6	1028.5	1023.5
40°	1004.5	1003.1	992.8	982.4	976.0
42.5°	953.6	952.6	941.6	927.2	920.5
45°	897.1	894.8	880.7	866.0	858.0
47.5°	834.3	830.3	813.2	799.2	790.5
50°	764.7	759.4	741.0	722.9	713.9
52.5°	689.5	680.1	661.1	640.3	631.6
55°	613.2	601.5	576.8	559.4	553.1
57.5°	538.7	521.6	498.2	485.8	479.5
60°	465.5	446.7	428.3	416.3	412.0
62.5°	395.6	379.9	364.1	352.1	349.4
65°	331.0	316.7	306.3	294.6	292.9
67.5°	270.8	264.2	254.8	244.8	243.4
70°	218.3	215.7	207.3	201.3	199.0
72.5°	174.2	171.5	165.5	161.2	160.5
75°	132.4	129.7	127.7	123.4	122.4
77.5°	94.3	94.6	93.0	90.6	91.3
80°	68.2	64.2	62.9	61.5	61.2
82.5°	41.8	39.5	38.5	38.1	38.8
85°	21.4	20.4	20.7	19.7	20.7
87.5°	7.4	7.4	7.7	7.4	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)