

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: P412841

Luminaire Tested: **24PD-35-PP3-L840**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412841
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24PD-35-PP3-L840
Description: 3500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

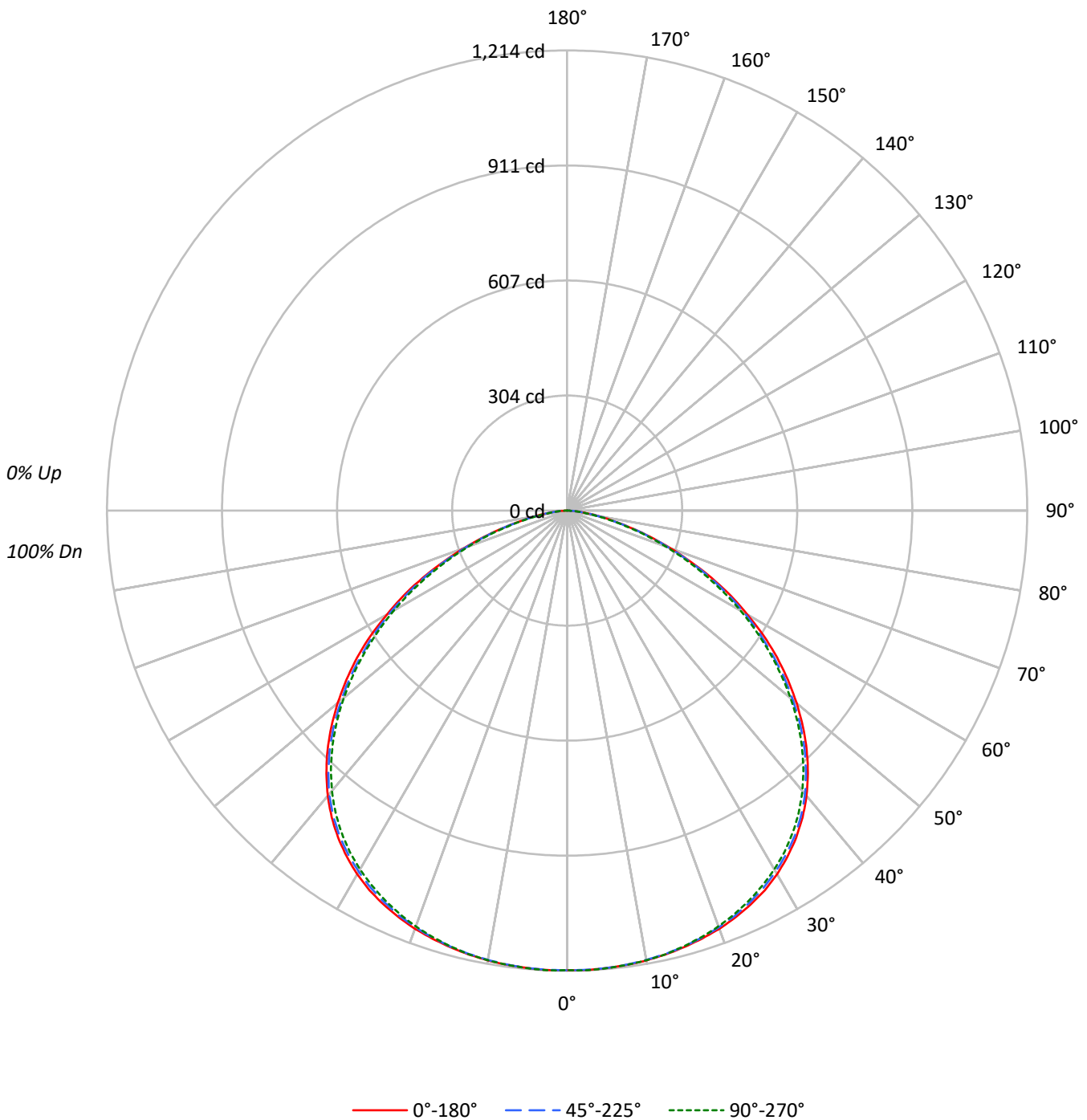
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3529.0 lumens
Efficiency: N/A
Efficacy: 136.8 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.33 / 1.43
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: P412841
CATALOG NUMBER: 24PD-35-PP3-L840

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	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	63	60
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	52
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1632	1632	1632
5°	1636	1636	1637
10°	1646	1644	1646
15°	1661	1658	1657
20°	1681	1675	1671
25°	1702	1693	1685
30°	1721	1709	1698
35°	1730	1720	1704
40°	1726	1715	1696
45°	1701	1684	1666
50°	1654	1628	1611
55°	1586	1548	1528
60°	1478	1452	1422
65°	1339	1313	1274
70°	1143	1122	1086
75°	893	884	842
80°	659	631	596
85°	397	397	371



TEST NUMBER: P412841

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.4	3.3
10°-20°	336.7	9.5
20°-30°	526.3	14.9
30°-40°	654.1	18.5
40°-50°	681.5	19.3
50°-60°	591.3	16.8
60°-70°	406.6	11.5
70°-80°	183.5	5.2
80°-90°	33.6	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°	978.4	27.7
0°-40°	1632.4	46.3
0°-60°	2905.3	82.3
0°-90°	3529.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3529.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1213	1213	1213	1213	1213	
5°	1211	1212	1211	1210	1212	115
15°	1192	1192	1191	1190	1190	337
25°	1146	1146	1140	1136	1135	529
35°	1053	1053	1047	1041	1038	658
45°	894	894	885	878	875	688
55°	676	672	660	652	651	602
65°	421	419	412	402	400	415
75°	172	172	170	165	162	187
85°	26	25	26	25	24	35
90°	0	0	0	0	0	



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CATALOG NUMBER: 24PD-35-PP3-L840

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1212.8	1212.8	1212.8	1212.8	1212.8
2.5°	1213.2	1213.2	1212.5	1211.4	1213.9
5°	1211.4	1211.8	1211.1	1210.0	1211.8
7.5°	1208.9	1209.3	1208.2	1207.2	1208.6
10°	1205.1	1204.7	1203.6	1202.9	1204.7
12.5°	1199.4	1199.1	1198.0	1197.3	1198.7
15°	1192.4	1192.4	1190.6	1189.5	1189.9
17.5°	1183.9	1183.9	1181.4	1179.0	1179.7
20°	1174.0	1173.7	1170.1	1167.7	1167.3
22.5°	1161.7	1161.7	1156.7	1153.6	1152.5
25°	1146.5	1146.2	1140.5	1135.9	1135.2
27.5°	1129.2	1128.5	1121.8	1117.2	1115.5
30°	1107.7	1107.0	1100.0	1095.0	1092.9
32.5°	1082.3	1083.4	1075.3	1069.6	1067.5
35°	1053.4	1053.4	1047.1	1041.1	1037.5
37.5°	1020.3	1020.3	1014.3	1008.3	1004.0
40°	982.5	982.9	976.5	969.1	965.6
42.5°	940.2	940.9	932.4	926.5	922.6
45°	894.0	894.4	885.2	878.5	875.3
47.5°	843.9	843.2	833.0	827.4	824.2
50°	790.3	788.9	777.6	772.3	769.5
52.5°	734.2	731.4	721.6	713.8	711.3
55°	676.1	672.2	659.8	652.1	651.4
57.5°	615.4	610.8	600.6	593.2	590.4
60°	549.1	548.0	539.6	530.8	528.6
62.5°	487.0	483.9	476.5	465.9	464.8
65°	420.7	419.0	412.3	402.4	400.3
67.5°	352.3	354.1	348.4	339.6	336.8
70°	290.6	291.7	285.3	277.2	276.1
72.5°	228.5	230.3	225.0	219.7	218.7
75°	171.7	172.5	170.0	165.4	161.9
77.5°	122.0	124.5	121.7	118.5	115.7
80°	85.0	81.1	81.5	80.1	76.9
82.5°	51.1	49.4	49.0	47.6	46.2
85°	25.7	25.4	25.7	25.4	24.0
87.5°	8.5	9.2	9.5	9.5	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)