

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: P412840

Luminaire Tested: **24PD-35-PP3-L835**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412840
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-L835
Description: 3500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

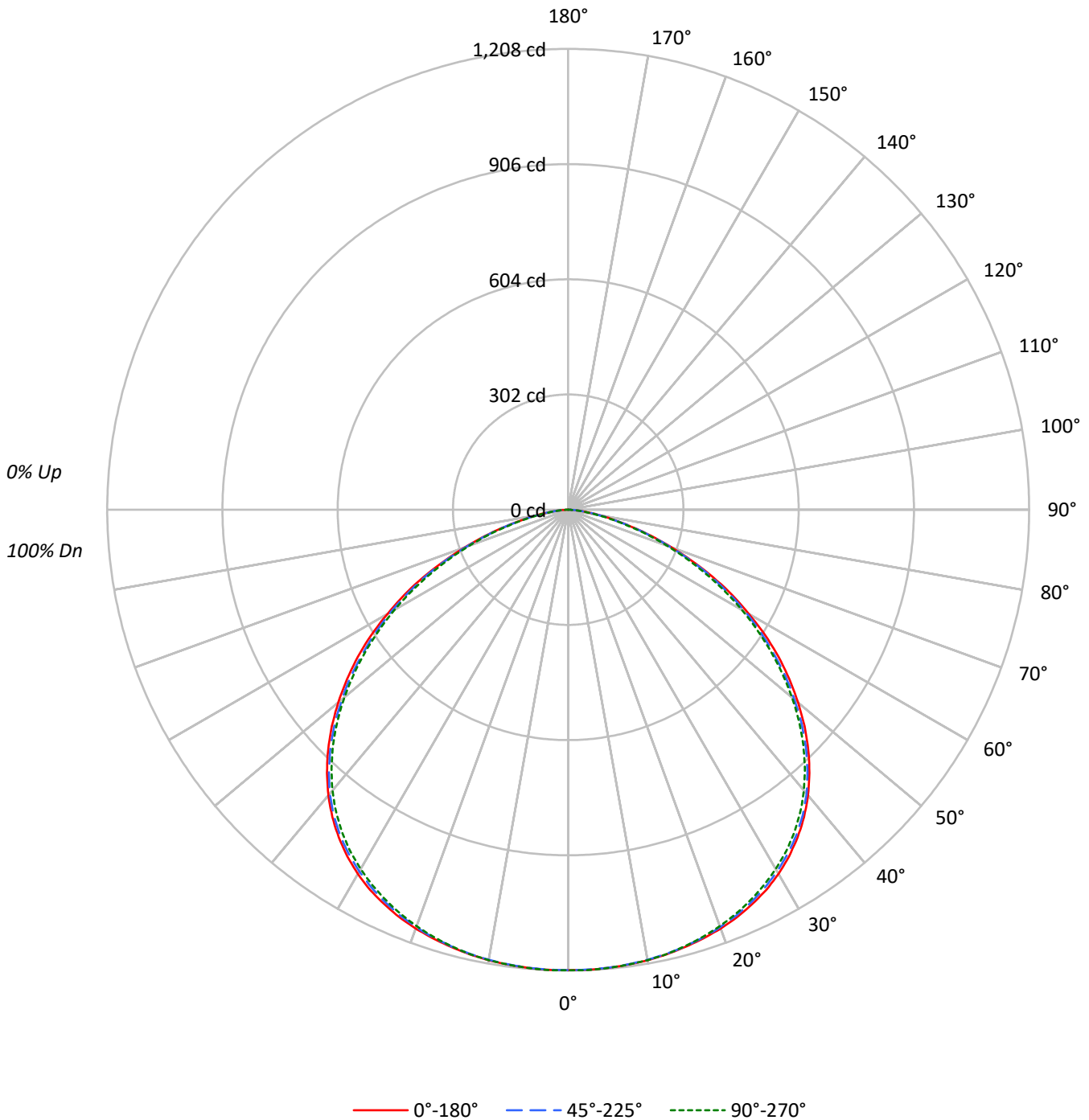
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3512.0 lumens
Efficiency: N/A
Efficacy: 136.1 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

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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	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°	1624	1624	1624
5°	1628	1628	1629
10°	1639	1636	1638
15°	1653	1651	1650
20°	1673	1667	1663
25°	1694	1685	1677
30°	1713	1701	1690
35°	1722	1712	1696
40°	1717	1707	1688
45°	1693	1676	1658
50°	1646	1620	1603
55°	1578	1540	1521
60°	1471	1445	1416
65°	1333	1306	1268
70°	1138	1117	1081
75°	888	880	837
80°	656	628	593
85°	395	395	369



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.8	3.3
10°-20°	335.1	9.5
20°-30°	523.7	14.9
30°-40°	650.9	18.5
40°-50°	678.2	19.3
50°-60°	588.5	16.8
60°-70°	404.7	11.5
70°-80°	182.6	5.2
80°-90°	33.5	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°	973.7	27.7
0°-40°	1624.6	46.3
0°-60°	2891.3	82.3
0°-90°	3512.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3512.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1207	1207	1207	1207	1207	
5°	1206	1206	1205	1204	1206	115
15°	1187	1187	1185	1184	1184	336
25°	1141	1141	1135	1130	1130	526
35°	1048	1048	1042	1036	1032	655
45°	890	890	881	874	871	685
55°	673	669	657	649	648	600
65°	419	417	410	400	398	413
75°	171	172	169	165	161	186
85°	26	25	26	25	24	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1207.0	1207.0	1207.0	1207.0	1207.0
2.5°	1207.3	1207.3	1206.6	1205.6	1208.0
5°	1205.6	1205.9	1205.2	1204.2	1205.9
7.5°	1203.1	1203.5	1202.4	1201.4	1202.8
10°	1199.3	1198.9	1197.8	1197.1	1198.9
12.5°	1193.6	1193.3	1192.2	1191.5	1192.9
15°	1186.6	1186.6	1184.9	1183.8	1184.2
17.5°	1178.2	1178.2	1175.7	1173.3	1174.0
20°	1168.4	1168.0	1164.5	1162.0	1161.7
22.5°	1156.1	1156.1	1151.2	1148.0	1147.0
25°	1141.0	1140.6	1135.0	1130.5	1129.8
27.5°	1123.8	1123.1	1116.4	1111.9	1110.1
30°	1102.4	1101.7	1094.7	1089.7	1087.6
32.5°	1077.1	1078.2	1070.1	1064.5	1062.4
35°	1048.3	1048.3	1042.0	1036.1	1032.5
37.5°	1015.3	1015.3	1009.4	1003.4	999.2
40°	977.8	978.1	971.8	964.5	960.9
42.5°	935.7	936.4	928.0	922.0	918.1
45°	889.7	890.0	880.9	874.3	871.1
47.5°	839.9	839.2	829.0	823.4	820.2
50°	786.5	785.1	773.9	768.6	765.8
52.5°	730.7	727.9	718.1	710.4	707.9
55°	672.8	668.9	656.7	648.9	648.2
57.5°	612.4	607.9	597.7	590.3	587.5
60°	546.5	545.4	537.0	528.2	526.1
62.5°	484.7	481.5	474.2	463.6	462.6
65°	418.7	416.9	410.3	400.5	398.3
67.5°	350.6	352.4	346.8	338.0	335.2
70°	289.2	290.2	283.9	275.9	274.8
72.5°	227.4	229.2	223.9	218.7	217.6
75°	170.9	171.6	169.2	164.6	161.1
77.5°	121.4	123.9	121.1	117.9	115.1
80°	84.6	80.7	81.1	79.7	76.5
82.5°	50.9	49.1	48.8	47.4	46.0
85°	25.6	25.3	25.6	25.3	23.9
87.5°	8.4	9.1	9.5	9.5	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)