

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: P412859

Luminaire Tested: **24PD-45-PP3-L840**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412859
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-45-PP3-L840
Description: 4500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

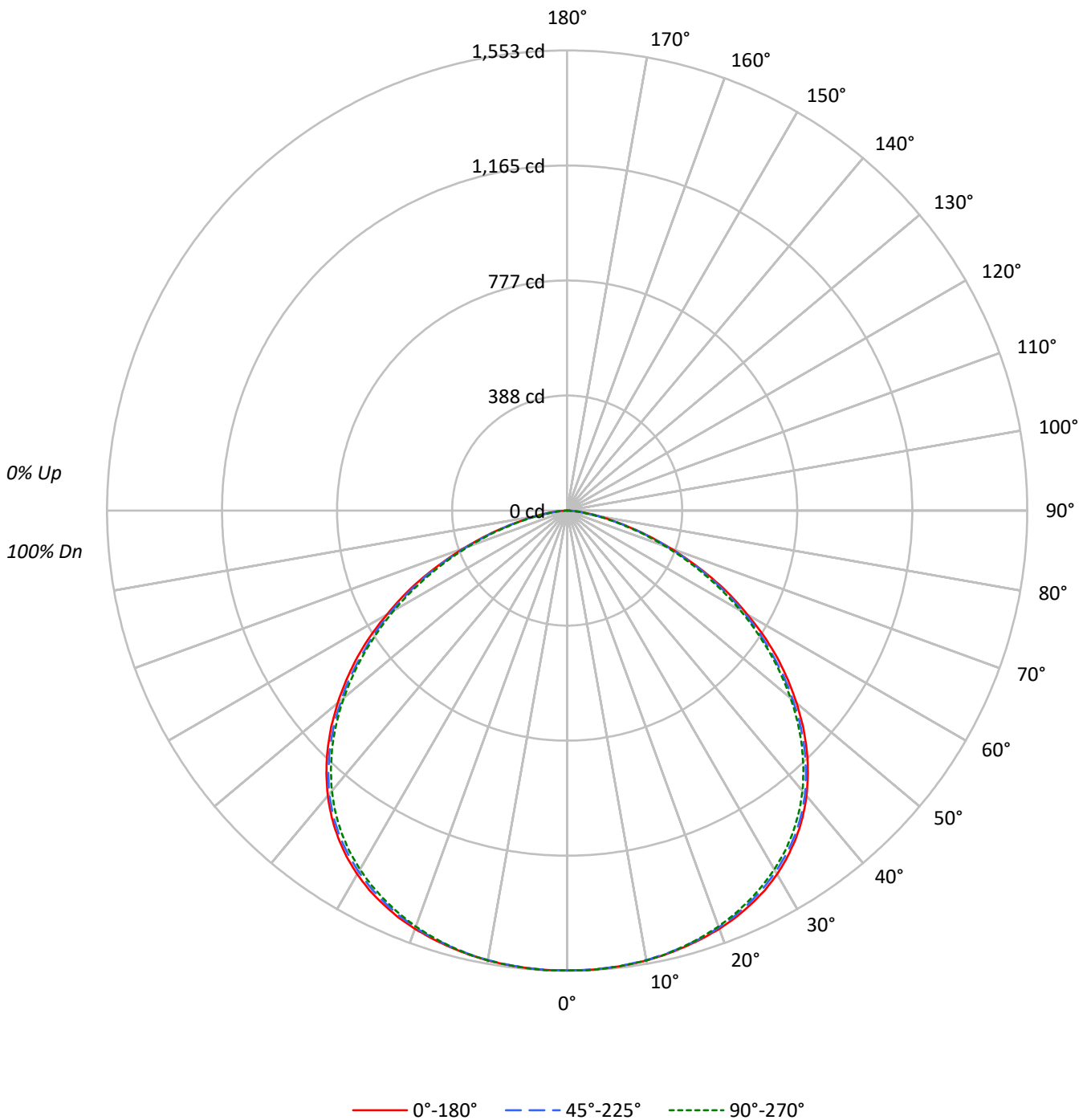
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4515.0 lumens
Efficiency: N/A
Efficacy: 135.2 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): 33.4
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: P412859
CATALOG NUMBER: 24PD-45-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°	2088	2088	2088
5°	2093	2093	2094
10°	2106	2104	2106
15°	2125	2122	2120
20°	2151	2144	2138
25°	2178	2166	2156
30°	2202	2186	2172
35°	2214	2200	2180
40°	2208	2194	2170
45°	2176	2155	2131
50°	2116	2083	2061
55°	2029	1980	1955
60°	1890	1858	1820
65°	1714	1679	1630
70°	1463	1436	1390
75°	1142	1131	1077
80°	842	807	762
85°	508	508	474



TEST NUMBER: P412859

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.6	3.3
10°-20°	430.8	9.5
20°-30°	673.3	14.9
30°-40°	836.8	18.5
40°-50°	871.9	19.3
50°-60°	756.6	16.8
60°-70°	520.2	11.5
70°-80°	234.8	5.2
80°-90°	43.0	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°	1251.7	27.7
0°-40°	2088.5	46.3
0°-60°	3717.0	82.3
0°-90°	4515.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4515.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1552	1552	1552	1552	1552	
5°	1550	1550	1549	1548	1550	148
15°	1526	1526	1523	1522	1522	431
25°	1467	1466	1459	1453	1452	677
35°	1348	1348	1340	1332	1327	842
45°	1144	1144	1132	1124	1120	880
55°	865	860	844	834	833	771
65°	538	536	528	515	512	531
75°	220	221	218	212	207	239
85°	33	32	33	32	31	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1551.7	1551.7	1551.7	1551.7	1551.7
2.5°	1552.1	1552.1	1551.2	1549.9	1553.0
5°	1549.9	1550.3	1549.4	1548.1	1550.3
7.5°	1546.7	1547.2	1545.8	1544.5	1546.3
10°	1541.7	1541.3	1539.9	1539.0	1541.3
12.5°	1534.5	1534.1	1532.7	1531.8	1533.6
15°	1525.5	1525.5	1523.2	1521.9	1522.3
17.5°	1514.7	1514.7	1511.5	1508.4	1509.3
20°	1502.0	1501.6	1497.1	1493.9	1493.5
22.5°	1486.3	1486.3	1479.9	1475.9	1474.5
25°	1466.8	1466.4	1459.2	1453.3	1452.4
27.5°	1444.7	1443.8	1435.3	1429.4	1427.1
30°	1417.2	1416.3	1407.3	1401.0	1398.3
32.5°	1384.7	1386.1	1375.7	1368.5	1365.8
35°	1347.7	1347.7	1339.6	1331.9	1327.4
37.5°	1305.3	1305.3	1297.6	1290.0	1284.6
40°	1257.0	1257.5	1249.4	1239.9	1235.4
42.5°	1202.9	1203.8	1193.0	1185.3	1180.3
45°	1143.8	1144.2	1132.5	1123.9	1119.9
47.5°	1079.7	1078.8	1065.7	1058.5	1054.5
50°	1011.1	1009.3	994.9	988.1	984.5
52.5°	939.4	935.8	923.2	913.2	910.1
55°	864.9	860.0	844.2	834.3	833.4
57.5°	787.3	781.5	768.4	758.9	755.3
60°	702.5	701.2	690.3	679.1	676.3
62.5°	623.1	619.0	609.6	596.0	594.7
65°	538.3	536.0	527.5	514.8	512.1
67.5°	450.7	453.0	445.8	434.5	430.9
70°	371.8	373.1	365.0	354.6	353.3
72.5°	292.4	294.6	287.9	281.1	279.7
75°	219.7	220.6	217.5	211.6	207.1
77.5°	156.1	159.3	155.7	151.6	148.0
80°	108.7	103.8	104.2	102.4	98.4
82.5°	65.4	63.2	62.7	60.9	59.1
85°	32.9	32.5	32.9	32.5	30.7
87.5°	10.8	11.7	12.2	12.2	11.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)