

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: P412849

Luminaire Tested: **24PD-40-PP3-L835**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412849
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-40-PP3-L835
Description: 4000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

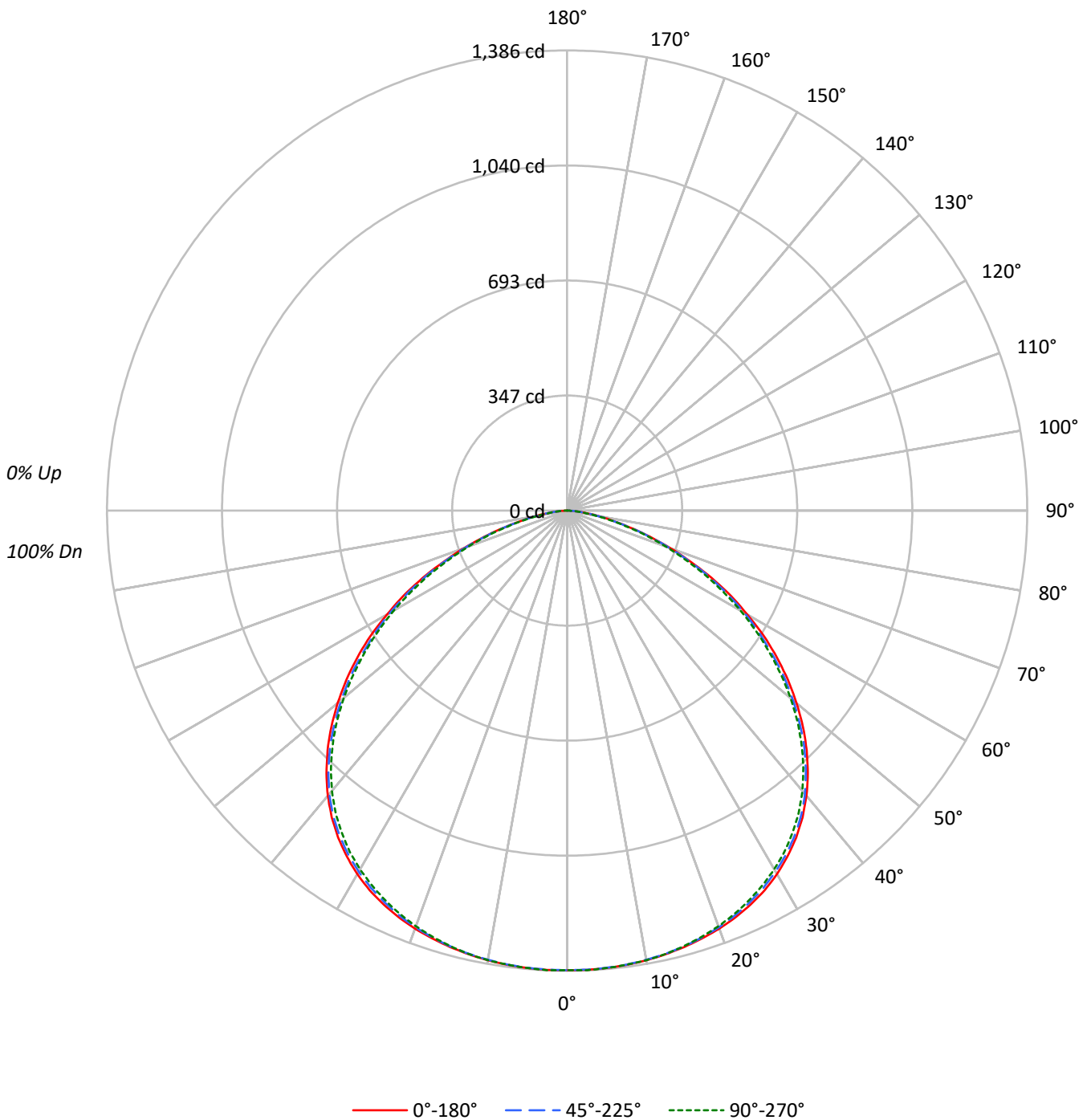
Lumens per Lamp: N/A
Luminaire Lumens: 4028.0 lumens
Efficiency: N/A
Efficacy: 135.6 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.33 / 1.43
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 29.7
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: P412849

CATALOG NUMBER: 24PD-40-PP3-L835

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°	1863	1863	1863
5°	1868	1867	1868
10°	1879	1877	1879
15°	1896	1893	1892
20°	1919	1912	1908
25°	1943	1933	1924
30°	1964	1951	1938
35°	1975	1963	1945
40°	1970	1958	1936
45°	1942	1923	1901
50°	1888	1858	1838
55°	1810	1767	1744
60°	1686	1657	1624
65°	1529	1498	1455
70°	1305	1281	1240
75°	1019	1009	961
80°	752	721	680
85°	454	454	423



TEST NUMBER: P412849

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.7	3.3
10°-20°	384.3	9.5
20°-30°	600.7	14.9
30°-40°	746.6	18.5
40°-50°	777.9	19.3
50°-60°	675.0	16.8
60°-70°	464.1	11.5
70°-80°	209.5	5.2
80°-90°	38.4	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°	1116.7	27.7
0°-40°	1863.3	46.3
0°-60°	3316.1	82.3
0°-90°	4028.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4028.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1384	1384	1384	1384	1384	
5°	1383	1383	1382	1381	1383	132
15°	1361	1361	1359	1358	1358	385
25°	1309	1308	1302	1297	1296	604
35°	1202	1202	1195	1188	1184	751
45°	1020	1021	1010	1003	999	785
55°	772	767	753	744	744	688
65°	480	478	471	459	457	474
75°	196	197	194	189	185	213
85°	29	29	29	29	27	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1384.3	1384.3	1384.3	1384.3	1384.3
2.5°	1384.7	1384.7	1383.9	1382.7	1385.5
5°	1382.7	1383.1	1382.3	1381.1	1383.1
7.5°	1379.9	1380.3	1379.1	1377.9	1379.5
10°	1375.5	1375.0	1373.8	1373.0	1375.0
12.5°	1369.0	1368.6	1367.4	1366.6	1368.2
15°	1361.0	1361.0	1358.9	1357.7	1358.1
17.5°	1351.3	1351.3	1348.5	1345.7	1346.5
20°	1340.0	1339.6	1335.6	1332.8	1332.4
22.5°	1325.9	1325.9	1320.3	1316.7	1315.5
25°	1308.6	1308.2	1301.8	1296.6	1295.7
27.5°	1288.9	1288.1	1280.5	1275.2	1273.2
30°	1264.4	1263.5	1255.5	1249.9	1247.4
32.5°	1235.4	1236.6	1227.3	1220.9	1218.5
35°	1202.4	1202.4	1195.1	1188.3	1184.2
37.5°	1164.5	1164.5	1157.7	1150.8	1146.0
40°	1121.5	1121.9	1114.6	1106.2	1102.1
42.5°	1073.1	1074.0	1064.3	1057.5	1053.0
45°	1020.4	1020.8	1010.4	1002.7	999.1
47.5°	963.3	962.5	950.8	944.3	940.7
50°	902.1	900.5	887.6	881.5	878.3
52.5°	838.1	834.9	823.6	814.7	811.9
55°	771.7	767.2	753.1	744.3	743.5
57.5°	702.4	697.2	685.5	677.1	673.8
60°	626.7	625.5	615.9	605.8	603.4
62.5°	555.9	552.3	543.8	531.7	530.5
65°	480.2	478.2	470.6	459.3	456.9
67.5°	402.1	404.1	397.7	387.6	384.4
70°	331.7	332.9	325.6	316.4	315.2
72.5°	260.8	262.9	256.8	250.8	249.6
75°	196.0	196.8	194.0	188.8	184.8
77.5°	139.3	142.1	138.9	135.3	132.0
80°	97.0	92.6	93.0	91.4	87.8
82.5°	58.4	56.4	56.0	54.3	52.7
85°	29.4	29.0	29.4	29.0	27.4
87.5°	9.7	10.5	10.9	10.9	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)