

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: P412851

Luminaire Tested: **24PD-40-PP3-L850**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412851
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-L850
Description: 4000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

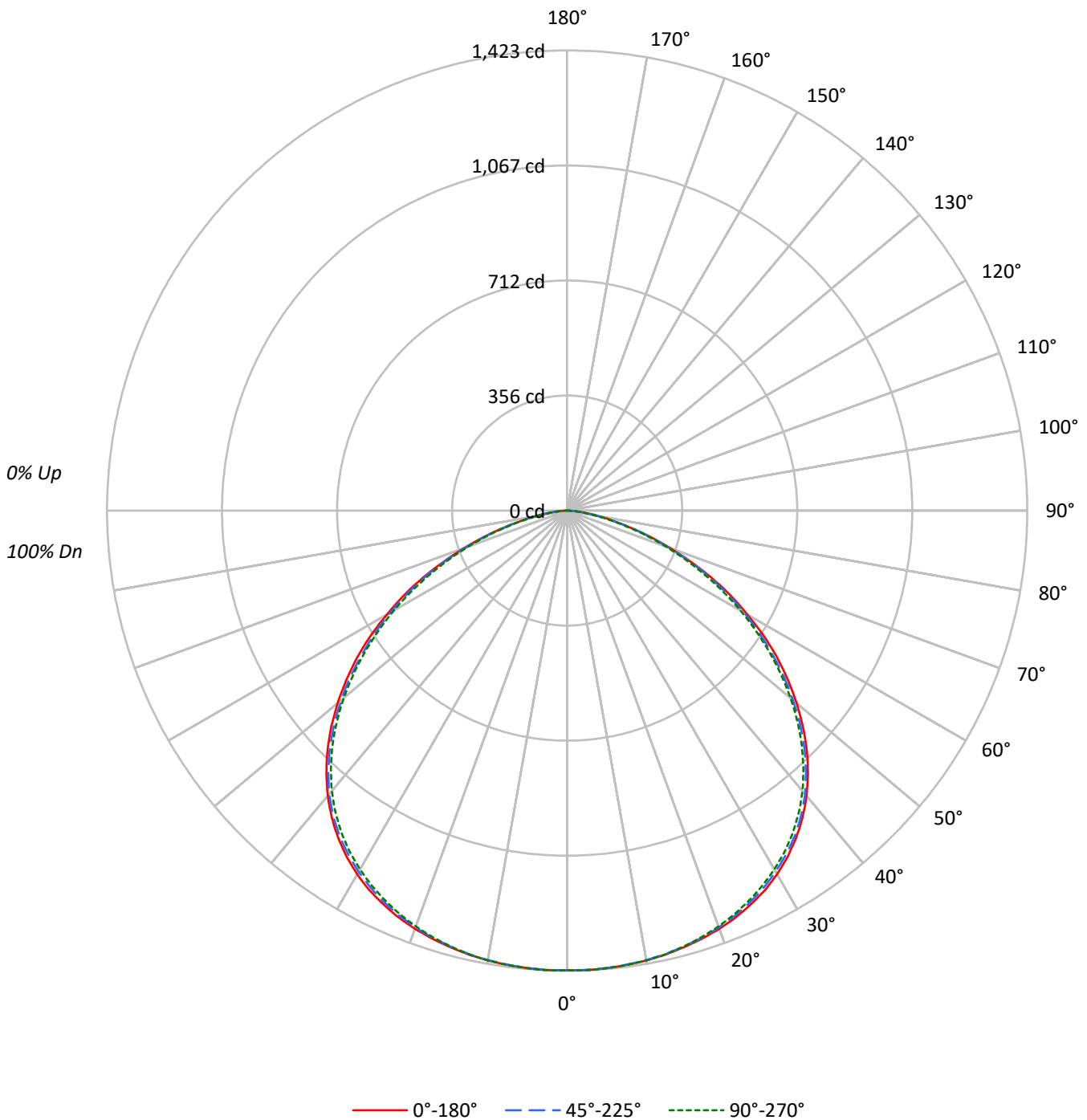
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4137.0 lumens
Efficiency: N/A
Efficacy: 139.3 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

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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°	1913	1913	1913
5°	1918	1917	1919
10°	1930	1928	1930
15°	1947	1944	1943
20°	1971	1964	1959
25°	1995	1985	1976
30°	2018	2003	1991
35°	2028	2016	1998
40°	2023	2011	1988
45°	1994	1975	1952
50°	1939	1908	1888
55°	1859	1814	1791
60°	1732	1702	1668
65°	1570	1539	1494
70°	1340	1316	1273
75°	1046	1036	987
80°	772	740	698
85°	466	466	434



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.3	3.3
10°-20°	394.7	9.5
20°-30°	616.9	14.9
30°-40°	766.7	18.5
40°-50°	798.9	19.3
50°-60°	693.2	16.8
60°-70°	476.7	11.5
70°-80°	215.1	5.2
80°-90°	39.4	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°	1146.9	27.7
0°-40°	1913.7	46.3
0°-60°	3405.8	82.3
0°-90°	4137.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4137.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1422	1422	1422	1422	1422	
5°	1420	1420	1420	1418	1420	135
15°	1398	1398	1396	1394	1395	395
25°	1344	1344	1337	1332	1331	620
35°	1235	1235	1228	1220	1216	772
45°	1048	1048	1038	1030	1026	807
55°	792	788	774	764	764	706
65°	493	491	483	472	469	487
75°	201	202	199	194	190	219
85°	30	30	30	30	28	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1421.8	1421.8	1421.8	1421.8	1421.8
2.5°	1422.2	1422.2	1421.4	1420.1	1423.0
5°	1420.1	1420.5	1419.7	1418.5	1420.5
7.5°	1417.2	1417.6	1416.4	1415.2	1416.8
10°	1412.7	1412.3	1411.0	1410.2	1412.3
12.5°	1406.1	1405.6	1404.4	1403.6	1405.2
15°	1397.8	1397.8	1395.7	1394.5	1394.9
17.5°	1387.9	1387.9	1385.0	1382.1	1382.9
20°	1376.3	1375.9	1371.7	1368.8	1368.4
22.5°	1361.8	1361.8	1356.0	1352.3	1351.1
25°	1344.0	1343.6	1337.0	1331.6	1330.8
27.5°	1323.8	1323.0	1315.1	1309.7	1307.7
30°	1298.6	1297.7	1289.5	1283.7	1281.2
32.5°	1268.8	1270.0	1260.5	1253.9	1251.4
35°	1234.9	1234.9	1227.5	1220.4	1216.3
37.5°	1196.0	1196.0	1189.0	1182.0	1177.0
40°	1151.8	1152.2	1144.8	1136.1	1132.0
42.5°	1102.2	1103.0	1093.1	1086.1	1081.5
45°	1048.0	1048.4	1037.7	1029.8	1026.1
47.5°	989.3	988.5	976.5	969.9	966.2
50°	926.5	924.8	911.6	905.4	902.1
52.5°	860.7	857.4	845.9	836.8	833.9
55°	792.5	788.0	773.5	764.4	763.6
57.5°	721.4	716.1	704.1	695.4	692.1
60°	643.7	642.5	632.5	622.2	619.7
62.5°	570.9	567.2	558.5	546.1	544.9
65°	493.2	491.1	483.3	471.7	469.2
67.5°	413.0	415.1	408.5	398.1	394.8
70°	340.7	341.9	334.5	325.0	323.7
72.5°	267.9	270.0	263.8	257.6	256.3
75°	201.3	202.2	199.3	193.9	189.8
77.5°	143.0	145.9	142.6	138.9	135.6
80°	99.6	95.1	95.5	93.8	90.1
82.5°	59.9	57.9	57.5	55.8	54.2
85°	30.2	29.8	30.2	29.8	28.1
87.5°	9.9	10.7	11.2	11.2	10.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)