

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: P413191

Luminaire Tested: **24PD-40-PC3-L835**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413191
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-46)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24PD-40-PC3-L835
Description: 4000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

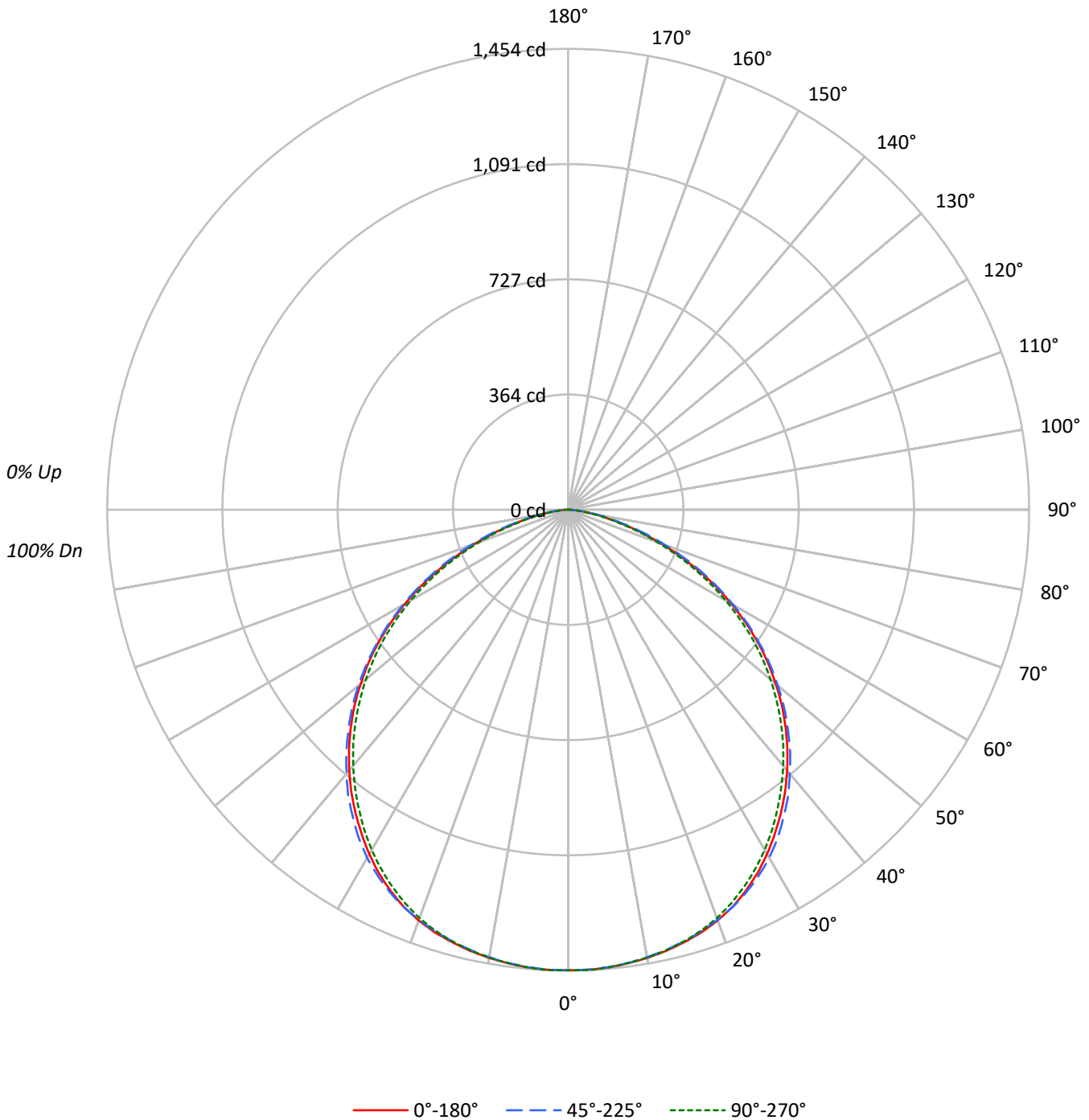
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3972.0 lumens
Efficiency: N/A
Efficacy: 133.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.38
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	99	96	93		95	92	90		91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77		83	79	75		80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65		74	69	64		71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56		66	60	55		64	59	54	52
5	77	64	56	49	75	63	55	49	61	54	48		59	53	48		57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42		54	47	42		52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38		49	42	37		47	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34		45	38	33		44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30		41	35	30		40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27		38	32	27		37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1955	1955	1955
5°	1958	1957	1958
10°	1962	1959	1961
15°	1968	1964	1965
20°	1975	1972	1963
25°	1969	1976	1949
30°	1949	1970	1925
35°	1921	1945	1892
40°	1887	1910	1853
45°	1844	1864	1806
50°	1787	1807	1743
55°	1714	1729	1663
60°	1600	1618	1545
65°	1442	1478	1385
70°	1224	1278	1175
75°	948	1017	904
80°	705	736	639
85°	435	466	404



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.9	3.5
10°-20°	398.5	10.0
20°-30°	610.3	15.4
30°-40°	734.2	18.5
40°-50°	748.7	18.8
50°-60°	649.0	16.3
60°-70°	450.0	11.3
70°-80°	205.5	5.2
80°-90°	38.0	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°	1146.7	28.9
0°-40°	1880.9	47.4
0°-60°	3278.6	82.5
0°-90°	3972.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3972.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1453	1453	1453	1453	1453	
5°	1450	1450	1449	1448	1450	138
15°	1413	1412	1410	1409	1410	399
25°	1326	1330	1331	1320	1313	611
35°	1169	1182	1184	1169	1152	731
45°	969	981	980	966	949	747
55°	731	735	737	719	709	651
65°	453	462	464	448	435	448
75°	182	192	196	189	174	199
85°	28	29	30	29	26	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1453.2	1453.2	1453.2	1453.2	1453.2
2.5°	1453.2	1453.2	1452.4	1451.6	1454.0
5°	1449.5	1449.5	1448.7	1447.9	1449.9
7.5°	1443.9	1443.5	1442.7	1441.9	1443.1
10°	1435.9	1435.4	1433.8	1433.4	1435.0
12.5°	1425.8	1425.4	1423.0	1423.0	1424.2
15°	1412.9	1412.5	1410.1	1408.9	1410.5
17.5°	1398.4	1398.0	1395.2	1392.0	1392.8
20°	1379.1	1379.1	1377.1	1372.3	1371.0
22.5°	1355.7	1357.0	1357.0	1347.7	1344.1
25°	1326.4	1330.0	1331.2	1319.5	1312.7
27.5°	1293.0	1298.6	1301.8	1286.9	1278.1
30°	1254.7	1264.0	1268.0	1251.9	1239.0
32.5°	1212.8	1224.5	1229.3	1213.7	1197.1
35°	1169.4	1181.9	1184.3	1169.0	1151.7
37.5°	1123.1	1136.0	1139.2	1125.5	1104.2
40°	1074.4	1087.3	1087.3	1076.0	1055.1
42.5°	1022.8	1036.5	1036.1	1022.4	1003.5
45°	969.3	981.4	979.8	966.5	949.2
47.5°	914.2	921.8	923.8	908.1	891.6
50°	853.8	861.4	863.4	845.7	832.9
52.5°	794.2	799.0	801.9	781.3	772.1
55°	730.6	735.0	737.0	718.9	708.9
57.5°	663.4	669.0	671.4	653.3	642.0
60°	594.5	600.6	601.4	584.5	574.0
62.5°	524.5	532.6	534.2	517.3	504.8
65°	452.9	462.5	464.1	448.4	435.1
67.5°	381.2	394.1	394.5	381.6	365.9
70°	311.2	325.3	324.8	314.0	298.7
72.5°	244.3	257.2	260.0	250.0	235.1
75°	182.3	192.4	195.6	189.2	173.9
77.5°	129.6	138.9	141.7	135.7	124.4
80°	91.0	91.4	95.0	90.2	82.5
82.5°	56.4	55.6	56.8	54.7	50.3
85°	28.2	29.0	30.2	28.6	26.2
87.5°	9.7	10.1	10.9	10.9	9.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)