

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: P413193

Luminaire Tested: **24PD-40-PC3-L850**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413193
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-L850
Description: 4000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

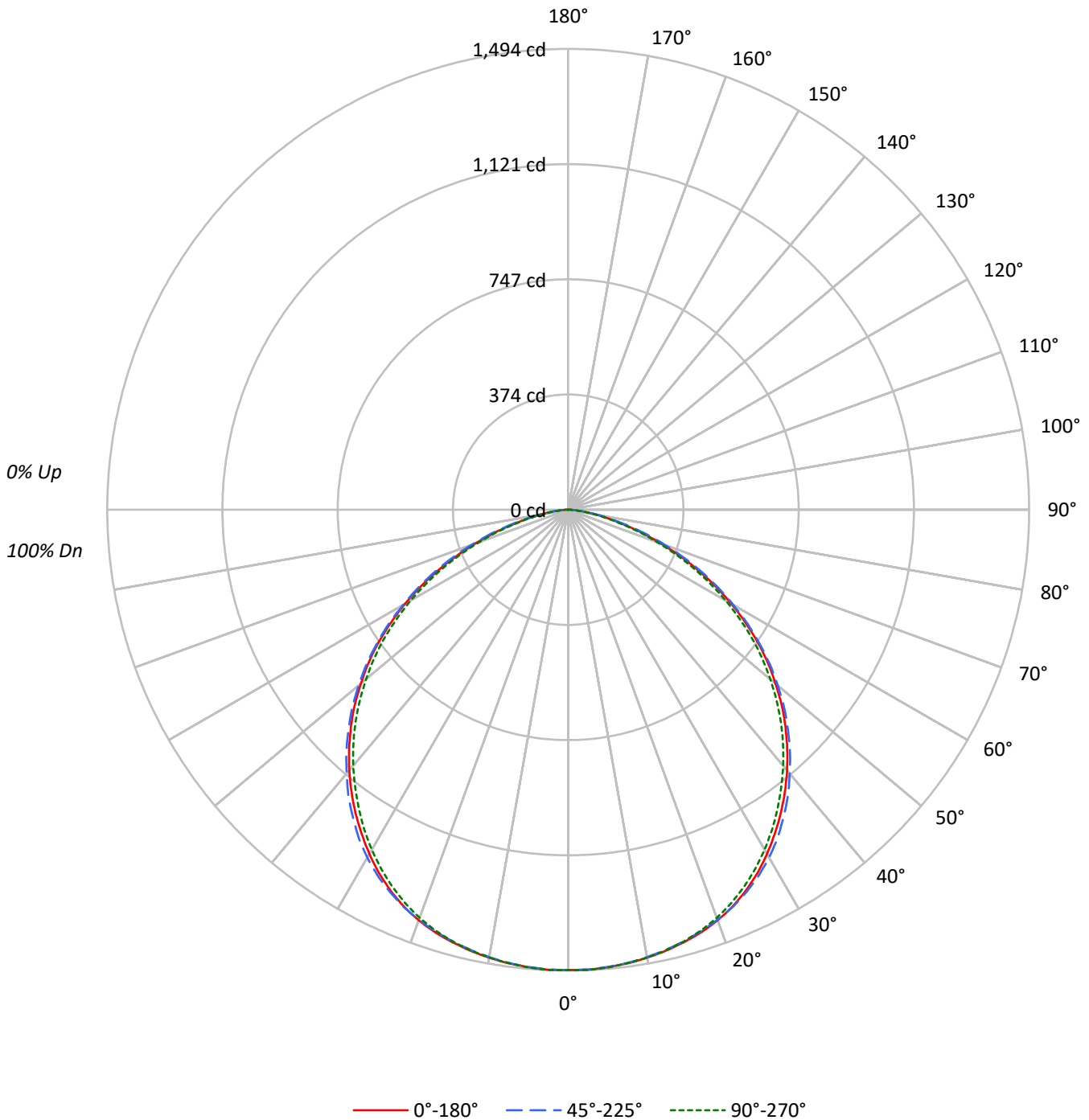
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4080.0 lumens
Efficiency: N/A
Efficacy: 137.4 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 (A_{in}): 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°	2008	2008	2008
5°	2011	2010	2012
10°	2015	2012	2014
15°	2022	2018	2018
20°	2028	2025	2016
25°	2023	2030	2002
30°	2002	2024	1977
35°	1973	1998	1943
40°	1938	1962	1903
45°	1895	1915	1855
50°	1836	1856	1791
55°	1761	1776	1708
60°	1643	1662	1587
65°	1481	1518	1423
70°	1257	1313	1207
75°	974	1045	928
80°	724	756	657
85°	446	479	415



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.6	3.5
10°-20°	409.3	10.0
20°-30°	626.9	15.4
30°-40°	754.2	18.5
40°-50°	769.0	18.8
50°-60°	666.7	16.3
60°-70°	462.2	11.3
70°-80°	211.1	5.2
80°-90°	39.0	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°	1177.8	28.9
0°-40°	1932.0	47.4
0°-60°	3367.7	82.5
0°-90°	4080.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4080.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1493	1493	1493	1493	1493	
5°	1489	1489	1488	1487	1489	142
15°	1451	1451	1448	1447	1449	410
25°	1362	1366	1367	1355	1348	627
35°	1201	1214	1216	1201	1183	751
45°	996	1008	1006	993	975	767
55°	750	755	757	738	728	669
65°	465	475	477	461	447	460
75°	187	198	201	194	179	205
85°	29	30	31	29	27	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1492.7	1492.7	1492.7	1492.7	1492.7
2.5°	1492.7	1492.7	1491.8	1491.0	1493.5
5°	1489.0	1489.0	1488.1	1487.3	1489.4
7.5°	1483.2	1482.7	1481.9	1481.1	1482.3
10°	1474.9	1474.5	1472.8	1472.4	1474.1
12.5°	1464.6	1464.1	1461.7	1461.7	1462.9
15°	1451.3	1450.9	1448.4	1447.2	1448.8
17.5°	1436.4	1436.0	1433.1	1429.8	1430.6
20°	1416.6	1416.6	1414.5	1409.6	1408.3
22.5°	1392.6	1393.8	1393.8	1384.3	1380.6
25°	1362.4	1366.1	1367.4	1355.4	1348.4
27.5°	1328.1	1333.9	1337.2	1321.9	1312.8
30°	1288.8	1298.3	1302.5	1285.9	1272.7
32.5°	1245.8	1257.8	1262.8	1246.7	1229.7
35°	1201.2	1214.0	1216.5	1200.8	1183.0
37.5°	1153.6	1166.8	1170.2	1156.1	1134.2
40°	1103.6	1116.8	1116.8	1105.2	1083.7
42.5°	1050.7	1064.7	1064.3	1050.2	1030.8
45°	995.7	1008.1	1006.4	992.8	975.0
47.5°	939.0	946.9	948.9	932.8	915.9
50°	877.0	884.9	886.9	868.7	855.5
52.5°	815.8	820.8	823.7	802.6	793.1
55°	750.5	755.0	757.1	738.5	728.1
57.5°	681.4	687.2	689.7	671.1	659.5
60°	610.7	616.9	617.7	600.4	589.6
62.5°	538.8	547.0	548.7	531.3	518.5
65°	465.2	475.1	476.7	460.6	447.0
67.5°	391.6	404.8	405.2	392.0	375.9
70°	319.6	334.1	333.7	322.5	306.8
72.5°	251.0	264.2	267.1	256.8	241.5
75°	187.3	197.6	201.0	194.3	178.6
77.5°	133.1	142.7	145.5	139.3	127.8
80°	93.4	93.9	97.6	92.6	84.8
82.5°	57.9	57.1	58.3	56.2	51.7
85°	28.9	29.8	31.0	29.4	26.9
87.5°	9.9	10.3	11.2	11.2	9.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)