

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: P413201

Luminaire Tested: **24PD-45-PC3-L840**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413201
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-45-PC3-L840
Description: 4500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

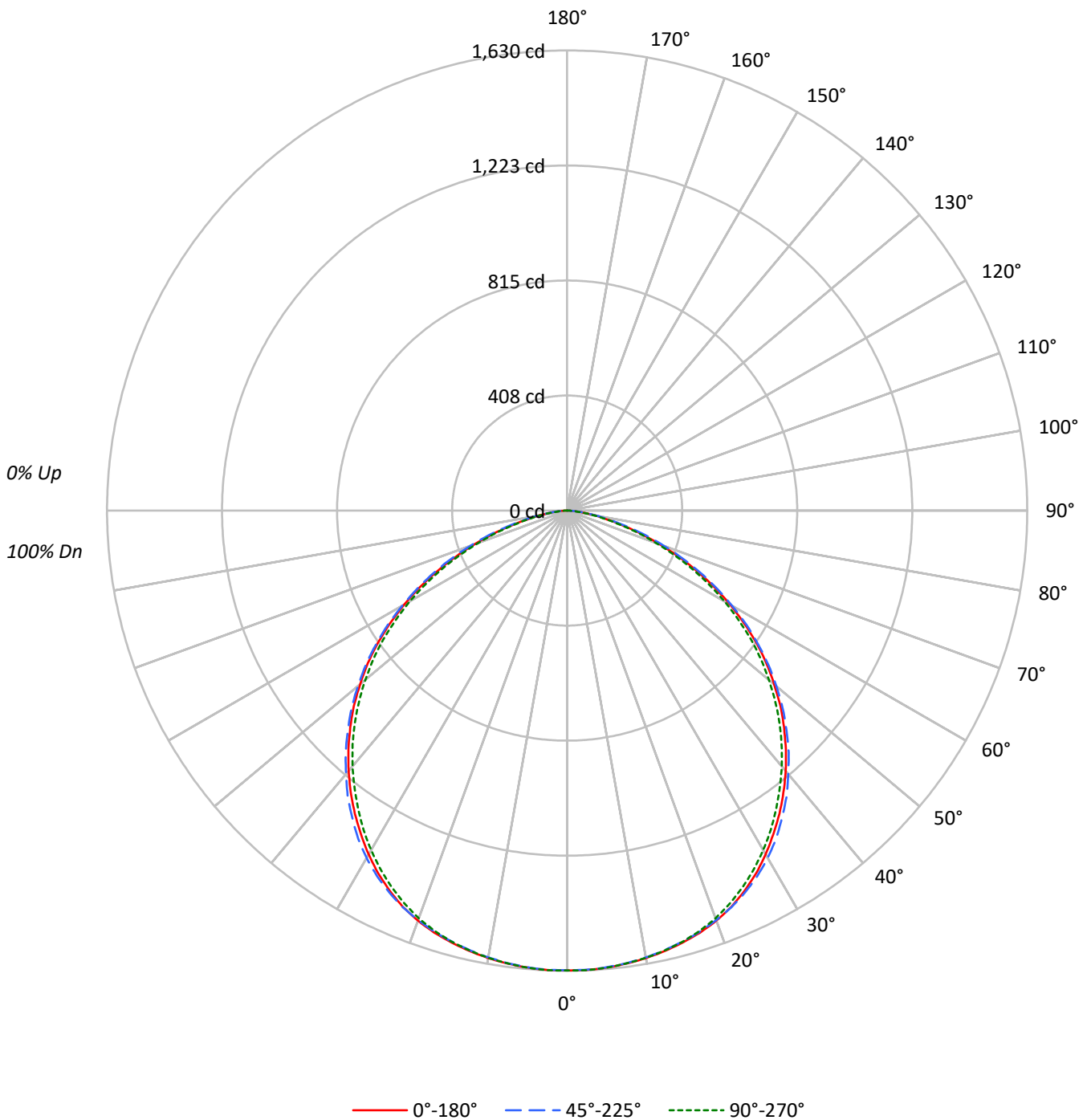
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4452.0 lumens
Efficiency: N/A
Efficacy: 133.3 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): 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: P413201
CATALOG NUMBER: 24PD-45-PC3-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	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°	2192	2192	2192
5°	2194	2193	2195
10°	2199	2196	2198
15°	2206	2202	2202
20°	2213	2210	2200
25°	2207	2215	2184
30°	2185	2208	2158
35°	2153	2180	2120
40°	2115	2140	2077
45°	2067	2090	2024
50°	2003	2026	1954
55°	1921	1938	1864
60°	1793	1814	1731
65°	1616	1656	1553
70°	1372	1432	1317
75°	1063	1140	1013
80°	790	825	717
85°	488	522	452



TEST NUMBER: P413201

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.5	3.5
10°-20°	446.7	10.0
20°-30°	684.0	15.4
30°-40°	822.9	18.5
40°-50°	839.1	18.8
50°-60°	727.5	16.3
60°-70°	504.4	11.3
70°-80°	230.4	5.2
80°-90°	42.5	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°	1285.2	28.9
0°-40°	2108.1	47.4
0°-60°	3674.7	82.5
0°-90°	4452.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4452.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1629	1629	1629	1629	1629	
5°	1625	1625	1624	1623	1625	155
15°	1584	1583	1580	1579	1581	447
25°	1487	1491	1492	1479	1471	684
35°	1311	1325	1327	1310	1291	820
45°	1086	1100	1098	1083	1064	837
55°	819	824	826	806	794	730
65°	508	518	520	503	488	502
75°	204	216	219	212	195	224
85°	32	32	34	32	29	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1628.8	1628.8	1628.8	1628.8	1628.8
2.5°	1628.8	1628.8	1627.9	1627.0	1629.7
5°	1624.7	1624.7	1623.8	1622.9	1625.2
7.5°	1618.4	1617.9	1617.0	1616.1	1617.5
10°	1609.4	1608.9	1607.1	1606.7	1608.5
12.5°	1598.1	1597.6	1594.9	1594.9	1596.3
15°	1583.7	1583.2	1580.5	1579.1	1580.9
17.5°	1567.4	1567.0	1563.8	1560.2	1561.1
20°	1545.8	1545.8	1543.5	1538.1	1536.7
22.5°	1519.6	1520.9	1520.9	1510.6	1506.5
25°	1486.6	1490.7	1492.1	1479.0	1471.3
27.5°	1449.2	1455.5	1459.1	1442.4	1432.5
30°	1406.3	1416.7	1421.2	1403.2	1388.7
32.5°	1359.4	1372.5	1377.9	1360.3	1341.8
35°	1310.7	1324.7	1327.4	1310.2	1290.8
37.5°	1258.8	1273.2	1276.8	1261.5	1237.6
40°	1204.2	1218.6	1218.6	1206.0	1182.5
42.5°	1146.5	1161.8	1161.3	1146.0	1124.8
45°	1086.4	1100.0	1098.2	1083.3	1063.9
47.5°	1024.6	1033.2	1035.5	1017.9	999.4
50°	957.0	965.5	967.8	947.9	933.5
52.5°	890.2	895.6	898.8	875.7	865.4
55°	818.9	823.9	826.1	805.8	794.5
57.5°	743.5	749.9	752.6	732.3	719.6
60°	666.4	673.2	674.1	655.1	643.4
62.5°	587.9	596.9	598.7	579.8	565.8
65°	507.6	518.4	520.2	502.6	487.7
67.5°	427.3	441.7	442.2	427.7	410.1
70°	348.8	364.6	364.1	351.9	334.8
72.5°	273.9	288.3	291.5	280.2	263.5
75°	204.4	215.7	219.3	212.1	194.9
77.5°	145.3	155.7	158.8	152.0	139.4
80°	102.0	102.4	106.5	101.1	92.5
82.5°	63.2	62.3	63.6	61.4	56.4
85°	31.6	32.5	33.8	32.0	29.3
87.5°	10.8	11.3	12.2	12.2	10.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)