

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: P413183

Luminaire Tested: **24PD-35-PC3-L840**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413183
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-35-PC3-L840
Description: 3500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

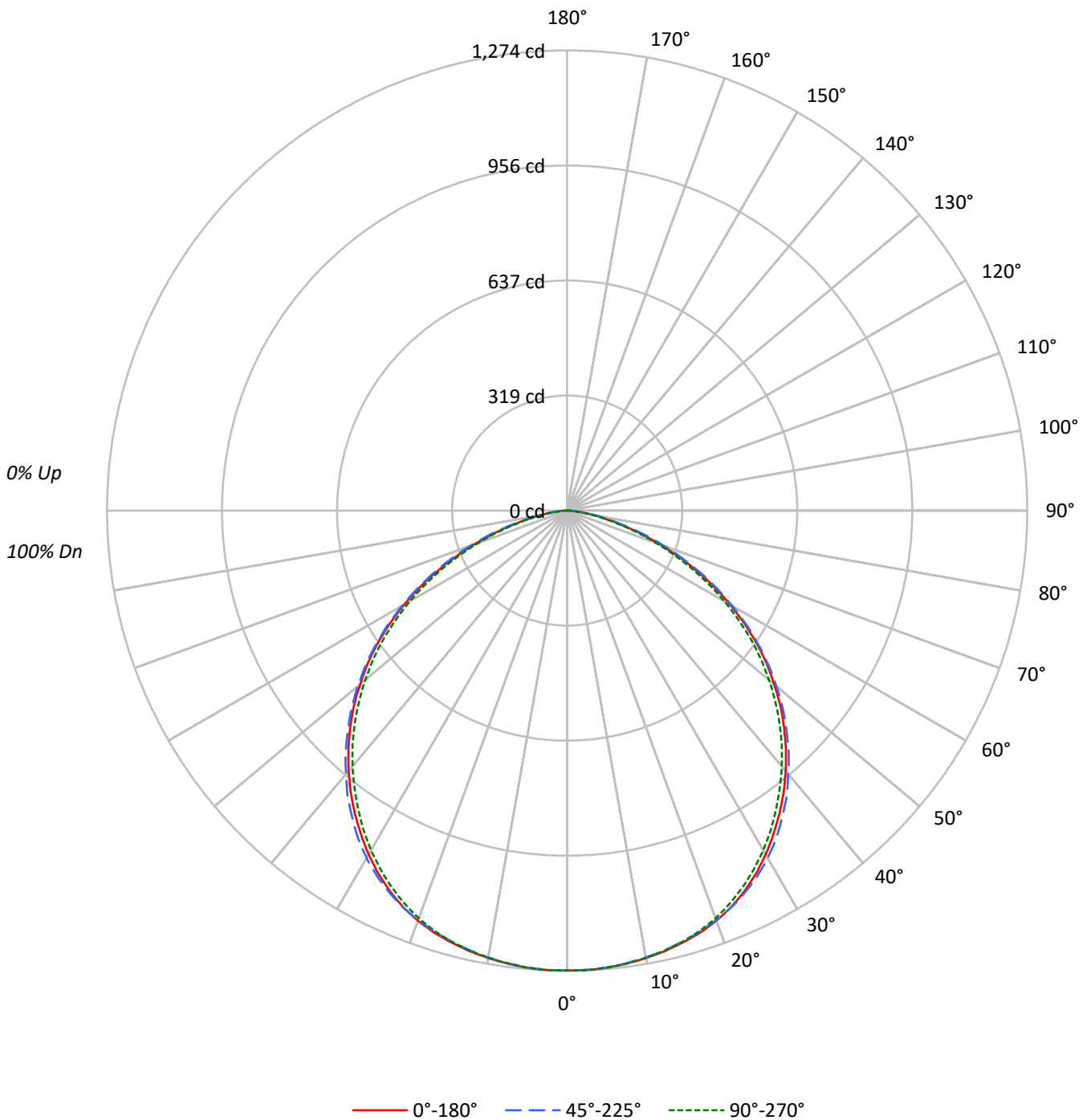
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3480.0 lumens
Efficiency: N/A
Efficacy: 134.9 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): 25.8
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°	1713	1713	1713
5°	1715	1714	1716
10°	1719	1716	1718
15°	1724	1721	1721
20°	1730	1728	1720
25°	1725	1731	1707
30°	1708	1726	1686
35°	1683	1704	1657
40°	1653	1673	1624
45°	1616	1633	1582
50°	1566	1584	1527
55°	1502	1515	1457
60°	1402	1418	1353
65°	1263	1294	1214
70°	1072	1120	1030
75°	831	891	792
80°	618	645	560
85°	381	409	354



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.8	3.5
10°-20°	349.1	10.0
20°-30°	534.7	15.4
30°-40°	643.3	18.5
40°-50°	655.9	18.8
50°-60°	568.7	16.3
60°-70°	394.2	11.3
70°-80°	180.1	5.2
80°-90°	33.3	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°	1004.6	28.9
0°-40°	1647.9	47.4
0°-60°	2872.5	82.5
0°-90°	3480.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3480.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1273	1273	1273	1273	1273	
5°	1270	1270	1269	1269	1270	121
15°	1238	1238	1235	1234	1236	350
25°	1162	1165	1166	1156	1150	535
35°	1024	1036	1038	1024	1009	641
45°	849	860	858	847	832	654
55°	640	644	646	630	621	570
65°	397	405	407	393	381	392
75°	160	169	171	166	152	175
85°	25	25	26	25	23	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1273.2	1273.2	1273.2	1273.2	1273.2
2.5°	1273.2	1273.2	1272.5	1271.8	1273.9
5°	1270.0	1270.0	1269.3	1268.6	1270.3
7.5°	1265.1	1264.7	1264.0	1263.3	1264.3
10°	1258.0	1257.6	1256.2	1255.9	1257.3
12.5°	1249.2	1248.8	1246.7	1246.7	1247.8
15°	1237.9	1237.5	1235.4	1234.4	1235.8
17.5°	1225.2	1224.8	1222.4	1219.6	1220.3
20°	1208.3	1208.3	1206.5	1202.3	1201.2
22.5°	1187.8	1188.9	1188.9	1180.8	1177.6
25°	1162.1	1165.2	1166.3	1156.1	1150.1
27.5°	1132.8	1137.7	1140.6	1127.5	1119.7
30°	1099.3	1107.4	1110.9	1096.8	1085.5
32.5°	1062.6	1072.8	1077.1	1063.3	1048.9
35°	1024.5	1035.5	1037.6	1024.2	1009.0
37.5°	984.0	995.3	998.1	986.1	967.4
40°	941.3	952.6	952.6	942.7	924.4
42.5°	896.2	908.1	907.8	895.8	879.2
45°	849.2	859.8	858.4	846.8	831.6
47.5°	800.9	807.6	809.4	795.6	781.2
50°	748.0	754.7	756.5	741.0	729.7
52.5°	695.8	700.1	702.5	684.5	676.4
55°	640.1	644.0	645.8	629.9	621.1
57.5°	581.2	586.1	588.3	572.4	562.5
60°	520.9	526.2	526.9	512.1	502.9
62.5°	459.5	466.6	468.0	453.2	442.3
65°	396.8	405.2	406.6	392.9	381.2
67.5°	334.0	345.3	345.6	334.3	320.6
70°	272.6	285.0	284.6	275.1	261.7
72.5°	214.1	225.4	227.8	219.0	206.0
75°	159.8	168.6	171.4	165.8	152.4
77.5°	113.6	121.7	124.1	118.9	109.0
80°	79.7	80.1	83.2	79.0	72.3
82.5°	49.4	48.7	49.7	48.0	44.1
85°	24.7	25.4	26.5	25.0	22.9
87.5°	8.5	8.8	9.5	9.5	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)