

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: P413275

Luminaire Tested: **24PD-85-PC3-L927**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413275
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-85-PC3-L927
Description: 8500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 2700 CCT LEDS
Light Source: -
Ballast/Driver: -

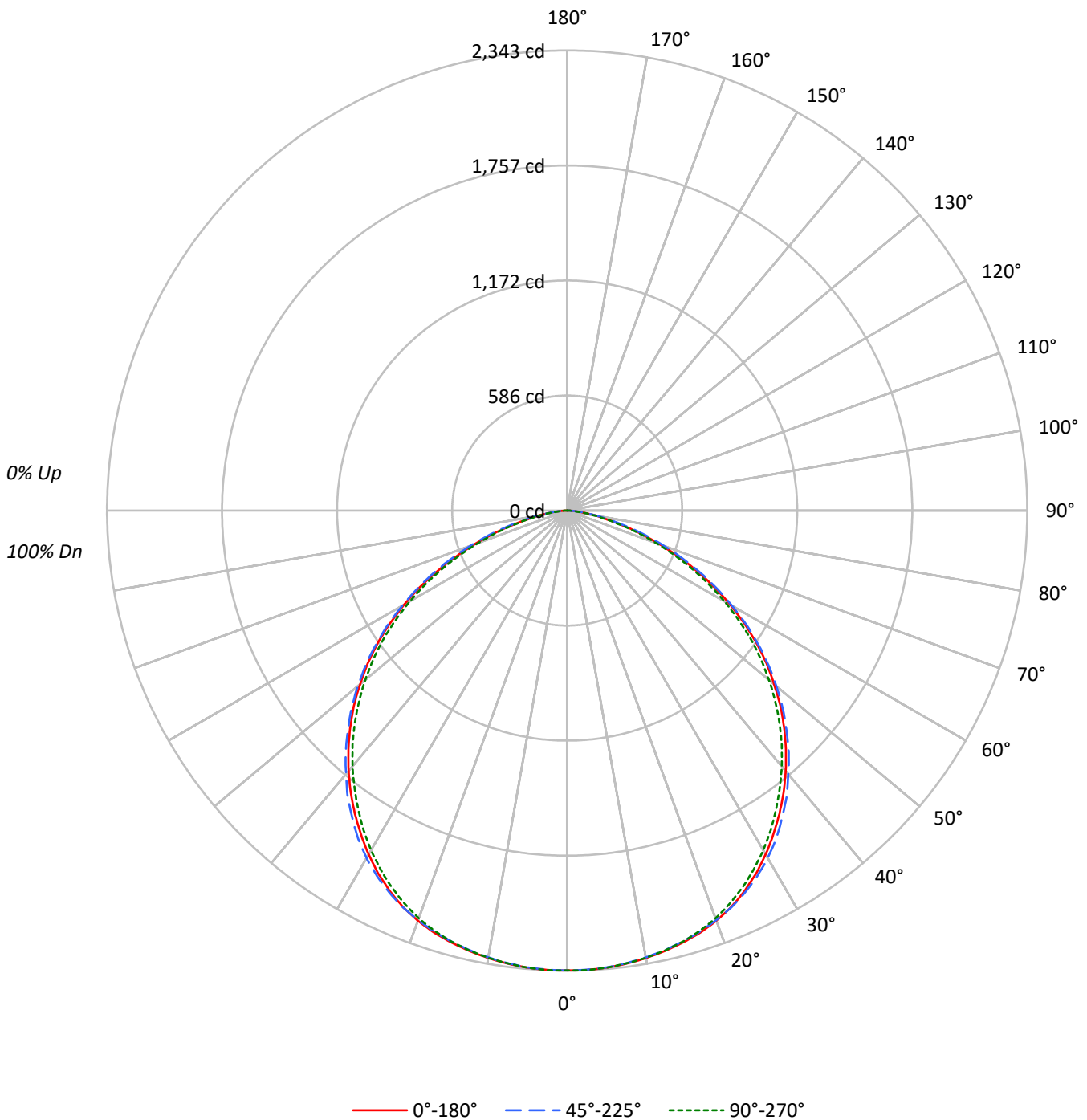
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6400.0 lumens
Efficiency: N/A
Efficacy: 99.2 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): 64.5
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

TEST NUMBER: P413275
CATALOG NUMBER: 24PD-85-PC3-L927

Luminous Intensity Polar Plot





TEST NUMBER: P413275

CATALOG NUMBER: 24PD-85-PC3-L927

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°	3150	3150	3150
5°	3155	3153	3155
10°	3161	3156	3159
15°	3171	3165	3166
20°	3182	3177	3163
25°	3173	3184	3140
30°	3141	3174	3102
35°	3095	3134	3048
40°	3041	3077	2986
45°	2972	3004	2910
50°	2880	2912	2809
55°	2761	2786	2679
60°	2578	2608	2489
65°	2323	2381	2232
70°	1972	2059	1893
75°	1527	1639	1457
80°	1136	1186	1031
85°	701	750	651



TEST NUMBER: P413275

CATALOG NUMBER: 24PD-85-PC3-L927

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.1	3.5
10°-20°	642.1	10.0
20°-30°	983.3	15.4
30°-40°	1183.0	18.5
40°-50°	1206.3	18.8
50°-60°	1045.8	16.3
60°-70°	725.0	11.3
70°-80°	331.1	5.2
80°-90°	61.2	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°	1847.6	28.9
0°-40°	3030.6	47.4
0°-60°	5282.6	82.5
0°-90°	6400.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6400.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2341	2341	2341	2341	2341	
5°	2336	2336	2334	2333	2336	222
15°	2277	2276	2272	2270	2273	643
25°	2137	2143	2145	2126	2115	984
35°	1884	1904	1908	1884	1856	1178
45°	1562	1581	1579	1557	1529	1204
55°	1177	1184	1188	1158	1142	1049
65°	730	745	748	722	701	721
75°	294	310	315	305	280	321
85°	45	47	49	46	42	61
90°	0	0	0	0	0	



TEST NUMBER: P413275

CATALOG NUMBER: 24PD-85-PC3-L927

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2341.4	2341.4	2341.4	2341.4	2341.4
2.5°	2341.4	2341.4	2340.1	2338.9	2342.7
5°	2335.6	2335.6	2334.3	2333.0	2336.3
7.5°	2326.5	2325.9	2324.6	2323.3	2325.2
10°	2313.6	2312.9	2310.3	2309.7	2312.3
12.5°	2297.3	2296.7	2292.8	2292.8	2294.7
15°	2276.6	2275.9	2272.0	2270.1	2272.7
17.5°	2253.2	2252.6	2248.0	2242.9	2244.2
20°	2222.1	2222.1	2218.9	2211.1	2209.1
22.5°	2184.5	2186.4	2186.4	2171.5	2165.7
25°	2137.1	2143.0	2144.9	2126.1	2115.1
27.5°	2083.3	2092.4	2097.6	2073.6	2059.3
30°	2021.7	2036.6	2043.1	2017.1	1996.4
32.5°	1954.2	1973.0	1980.8	1955.5	1928.9
35°	1884.2	1904.3	1908.2	1883.5	1855.6
37.5°	1809.6	1830.3	1835.5	1813.5	1779.1
40°	1731.1	1751.9	1751.9	1733.7	1700.0
42.5°	1648.1	1670.1	1669.5	1647.4	1617.0
45°	1561.8	1581.3	1578.7	1557.3	1529.4
47.5°	1473.0	1485.3	1488.5	1463.2	1436.6
50°	1375.7	1388.0	1391.2	1362.7	1342.0
52.5°	1279.7	1287.5	1292.0	1258.9	1244.0
55°	1177.2	1184.3	1187.6	1158.4	1142.2
57.5°	1068.9	1078.0	1081.9	1052.7	1034.5
60°	958.0	967.7	969.0	941.8	924.9
62.5°	845.1	858.1	860.7	833.5	813.3
65°	729.7	745.2	747.8	722.5	701.1
67.5°	614.2	635.0	635.6	614.9	589.6
70°	501.4	524.1	523.4	505.9	481.3
72.5°	393.7	414.5	419.0	402.8	378.8
75°	293.8	310.0	315.2	304.8	280.2
77.5°	208.8	223.8	228.3	218.6	200.4
80°	146.6	147.2	153.1	145.3	133.0
82.5°	90.8	89.5	91.5	88.2	81.1
85°	45.4	46.7	48.6	46.1	42.2
87.5°	15.6	16.2	17.5	17.5	15.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)