

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: P413246

Luminaire Tested: **24PD-70-PC3-L840**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413246
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-70-PC3-L840
Description: 7000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

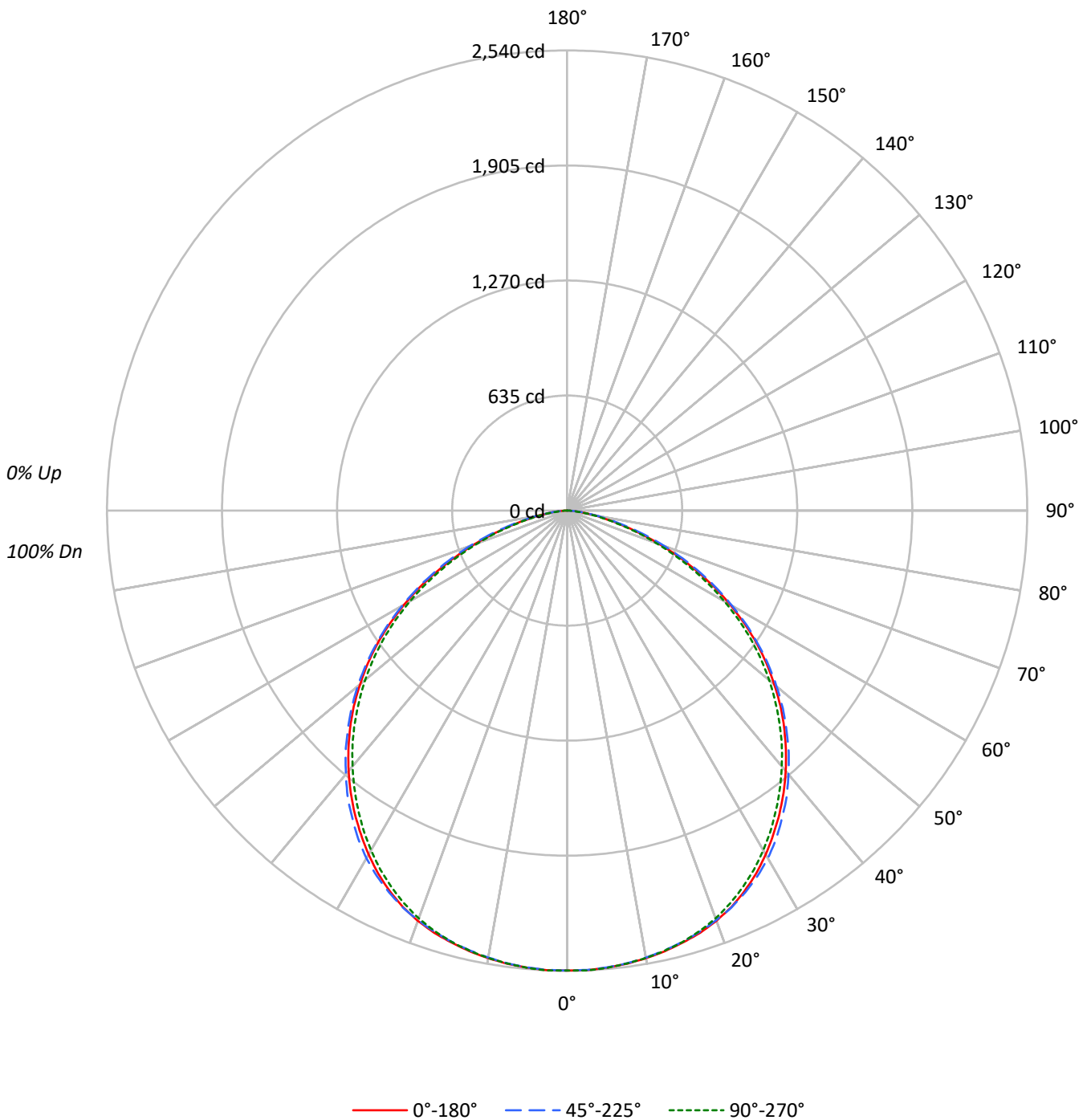
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6940.0 lumens
Efficiency: N/A
Efficacy: 132.7 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): 52.3
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: P413246
CATALOG NUMBER: 24PD-70-PC3-L840

Luminous Intensity Polar Plot





TEST NUMBER: P413246

CATALOG NUMBER: 24PD-70-PC3-L840

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°	3416	3416	3416
5°	3421	3419	3422
10°	3428	3423	3426
15°	3439	3432	3433
20°	3450	3445	3430
25°	3441	3453	3405
30°	3406	3442	3363
35°	3356	3399	3305
40°	3297	3337	3238
45°	3223	3257	3156
50°	3123	3158	3046
55°	2994	3021	2905
60°	2795	2828	2699
65°	2519	2582	2421
70°	2139	2233	2053
75°	1656	1777	1579
80°	1232	1286	1117
85°	760	814	706



TEST NUMBER: P413246

CATALOG NUMBER: 24PD-70-PC3-L840

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.9	3.5
10°-20°	696.3	10.0
20°-30°	1066.3	15.4
30°-40°	1282.8	18.5
40°-50°	1308.1	18.8
50°-60°	1134.0	16.3
60°-70°	786.2	11.3
70°-80°	359.1	5.2
80°-90°	66.3	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°	2003.5	28.9
0°-40°	3286.3	47.4
0°-60°	5728.4	82.5
0°-90°	6940.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6940.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2539	2539	2539	2539	2539	
5°	2533	2533	2531	2530	2533	241
15°	2469	2468	2464	2462	2464	698
25°	2318	2324	2326	2306	2294	1067
35°	2043	2065	2069	2042	2012	1278
45°	1694	1715	1712	1689	1658	1305
55°	1276	1284	1288	1256	1239	1137
65°	791	808	811	784	760	782
75°	319	336	342	331	304	348
85°	49	51	53	50	46	66
90°	0	0	0	0	0	



TEST NUMBER: P413246

CATALOG NUMBER: 24PD-70-PC3-L840

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2539.0	2539.0	2539.0	2539.0	2539.0
2.5°	2539.0	2539.0	2537.6	2536.2	2540.4
5°	2532.7	2532.7	2531.3	2529.9	2533.4
7.5°	2522.8	2522.1	2520.7	2519.3	2521.4
10°	2508.8	2508.1	2505.2	2504.5	2507.4
12.5°	2491.2	2490.5	2486.3	2486.3	2488.4
15°	2468.7	2468.0	2463.8	2461.6	2464.5
17.5°	2443.4	2442.7	2437.7	2432.1	2433.5
20°	2409.6	2409.6	2406.1	2397.6	2395.5
22.5°	2368.8	2370.9	2370.9	2354.7	2348.4
25°	2317.5	2323.8	2325.9	2305.5	2293.5
27.5°	2259.1	2268.9	2274.6	2248.5	2233.1
30°	2192.3	2208.4	2215.5	2187.3	2164.8
32.5°	2119.1	2139.5	2148.0	2120.5	2091.7
35°	2043.2	2065.0	2069.2	2042.5	2012.2
37.5°	1962.3	1984.8	1990.4	1966.5	1929.2
40°	1877.2	1899.7	1899.7	1880.0	1843.4
42.5°	1787.2	1811.1	1810.4	1786.4	1753.4
45°	1693.6	1714.7	1711.9	1688.7	1658.4
47.5°	1597.3	1610.6	1614.1	1586.7	1557.9
50°	1491.8	1505.1	1508.6	1477.7	1455.2
52.5°	1387.7	1396.1	1401.0	1365.2	1349.0
55°	1276.5	1284.3	1287.8	1256.1	1238.6
57.5°	1159.1	1168.9	1173.1	1141.5	1121.8
60°	1038.8	1049.4	1050.8	1021.2	1002.9
62.5°	916.4	930.5	933.3	903.8	882.0
65°	791.2	808.1	810.9	783.5	760.3
67.5°	666.0	688.6	689.3	666.8	639.3
70°	543.7	568.3	567.6	548.6	521.9
72.5°	426.9	449.4	454.3	436.8	410.7
75°	318.6	336.2	341.8	330.6	303.8
77.5°	226.5	242.6	247.6	237.0	217.3
80°	159.0	159.7	166.0	157.5	144.2
82.5°	98.5	97.1	99.2	95.7	87.9
85°	49.2	50.6	52.7	49.9	45.7
87.5°	16.9	17.6	19.0	19.0	16.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)