

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: P413269

Luminaire Tested: **24PD-80-PC3-L940**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413269
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-80-PC3-L940
Description: 8000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

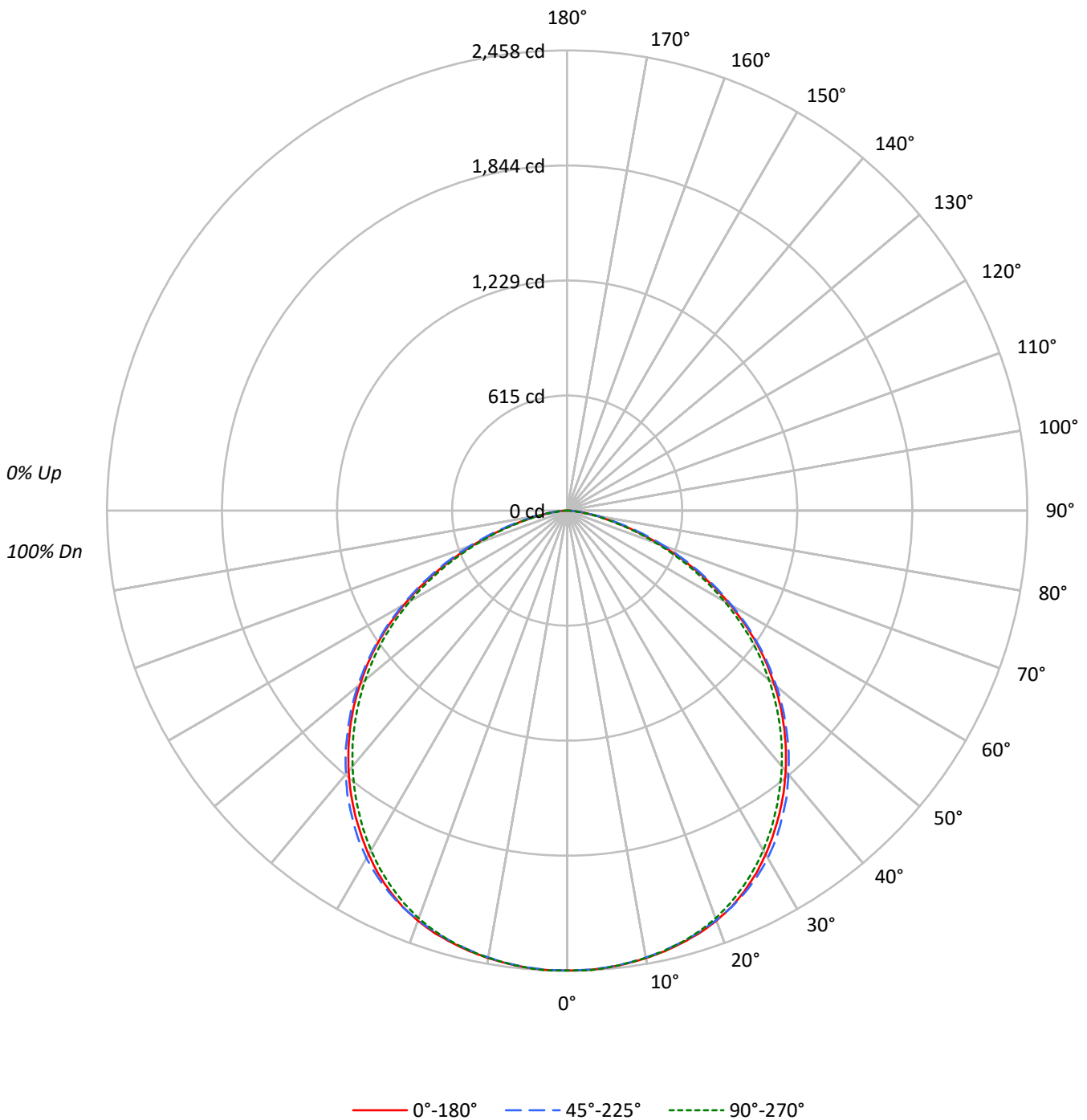
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6715.0 lumens
Efficiency: N/A
Efficacy: 111.4 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): 60.3
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: P413269
CATALOG NUMBER: 24PD-80-PC3-L940

Luminous Intensity Polar Plot





TEST NUMBER: P413269

CATALOG NUMBER: 24PD-80-PC3-L940

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°	3305	3305	3305
5°	3310	3308	3311
10°	3316	3312	3315
15°	3327	3321	3322
20°	3338	3333	3319
25°	3329	3341	3295
30°	3296	3330	3254
35°	3247	3289	3198
40°	3190	3228	3133
45°	3118	3152	3053
50°	3021	3055	2947
55°	2898	2923	2811
60°	2705	2736	2611
65°	2437	2498	2342
70°	2069	2161	1986
75°	1603	1719	1528
80°	1192	1244	1081
85°	735	787	682



TEST NUMBER: P413269

CATALOG NUMBER: 24PD-80-PC3-L940

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.0	3.5
10°-20°	673.7	10.0
20°-30°	1031.7	15.4
30°-40°	1241.2	18.5
40°-50°	1265.7	18.8
50°-60°	1097.3	16.3
60°-70°	760.7	11.3
70°-80°	347.4	5.2
80°-90°	64.2	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°	1938.5	28.9
0°-40°	3179.7	47.4
0°-60°	5542.6	82.5
0°-90°	6715.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6715.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2457	2457	2457	2457	2457	
5°	2451	2451	2449	2448	2451	233
15°	2389	2388	2384	2382	2385	675
25°	2242	2248	2250	2231	2219	1032
35°	1977	1998	2002	1976	1947	1236
45°	1639	1659	1656	1634	1605	1263
55°	1235	1243	1246	1215	1198	1101
65°	766	782	785	758	736	757
75°	308	325	331	320	294	337
85°	48	49	51	48	44	64
90°	0	0	0	0	0	



TEST NUMBER: P413269

CATALOG NUMBER: 24PD-80-PC3-L940

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2456.7	2456.7	2456.7	2456.7	2456.7
2.5°	2456.7	2456.7	2455.3	2454.0	2458.1
5°	2450.6	2450.6	2449.2	2447.8	2451.2
7.5°	2441.0	2440.4	2439.0	2437.6	2439.7
10°	2427.4	2426.7	2424.0	2423.3	2426.1
12.5°	2410.4	2409.7	2405.7	2405.7	2407.7
15°	2388.6	2388.0	2383.9	2381.8	2384.6
17.5°	2364.1	2363.5	2358.7	2353.3	2354.6
20°	2331.5	2331.5	2328.1	2319.9	2317.9
22.5°	2292.0	2294.0	2294.0	2278.4	2272.3
25°	2242.3	2248.4	2250.5	2230.8	2219.2
27.5°	2185.8	2195.4	2200.8	2175.6	2160.7
30°	2121.2	2136.8	2143.6	2116.4	2094.7
32.5°	2050.4	2070.2	2078.3	2051.8	2023.9
35°	1976.9	1998.0	2002.1	1976.2	1947.0
37.5°	1898.7	1920.4	1925.9	1902.7	1866.7
40°	1816.3	1838.1	1838.1	1819.0	1783.7
42.5°	1729.2	1752.3	1751.7	1728.5	1696.5
45°	1638.7	1659.1	1656.4	1633.9	1604.7
47.5°	1545.5	1558.4	1561.8	1535.3	1507.4
50°	1443.4	1456.3	1459.7	1429.8	1408.0
52.5°	1342.7	1350.8	1355.6	1320.9	1305.2
55°	1235.2	1242.6	1246.0	1215.4	1198.4
57.5°	1121.5	1131.0	1135.1	1104.5	1085.4
60°	1005.1	1015.3	1016.7	988.1	970.4
62.5°	886.7	900.3	903.1	874.5	853.4
65°	765.6	781.9	784.6	758.1	735.6
67.5°	644.5	666.2	666.9	645.1	618.6
70°	526.0	549.9	549.2	530.8	504.9
72.5°	413.1	434.9	439.6	422.6	397.4
75°	308.3	325.3	330.7	319.8	294.0
77.5°	219.1	234.8	239.5	229.3	210.3
80°	153.8	154.5	160.6	152.4	139.5
82.5°	95.3	93.9	96.0	92.6	85.1
85°	47.6	49.0	51.0	48.3	44.2
87.5°	16.3	17.0	18.4	18.4	16.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)