

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: P413171

Luminaire Tested: **24PD-10-PC3-L950**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413171
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-10-PC3-L950
Description: 10000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

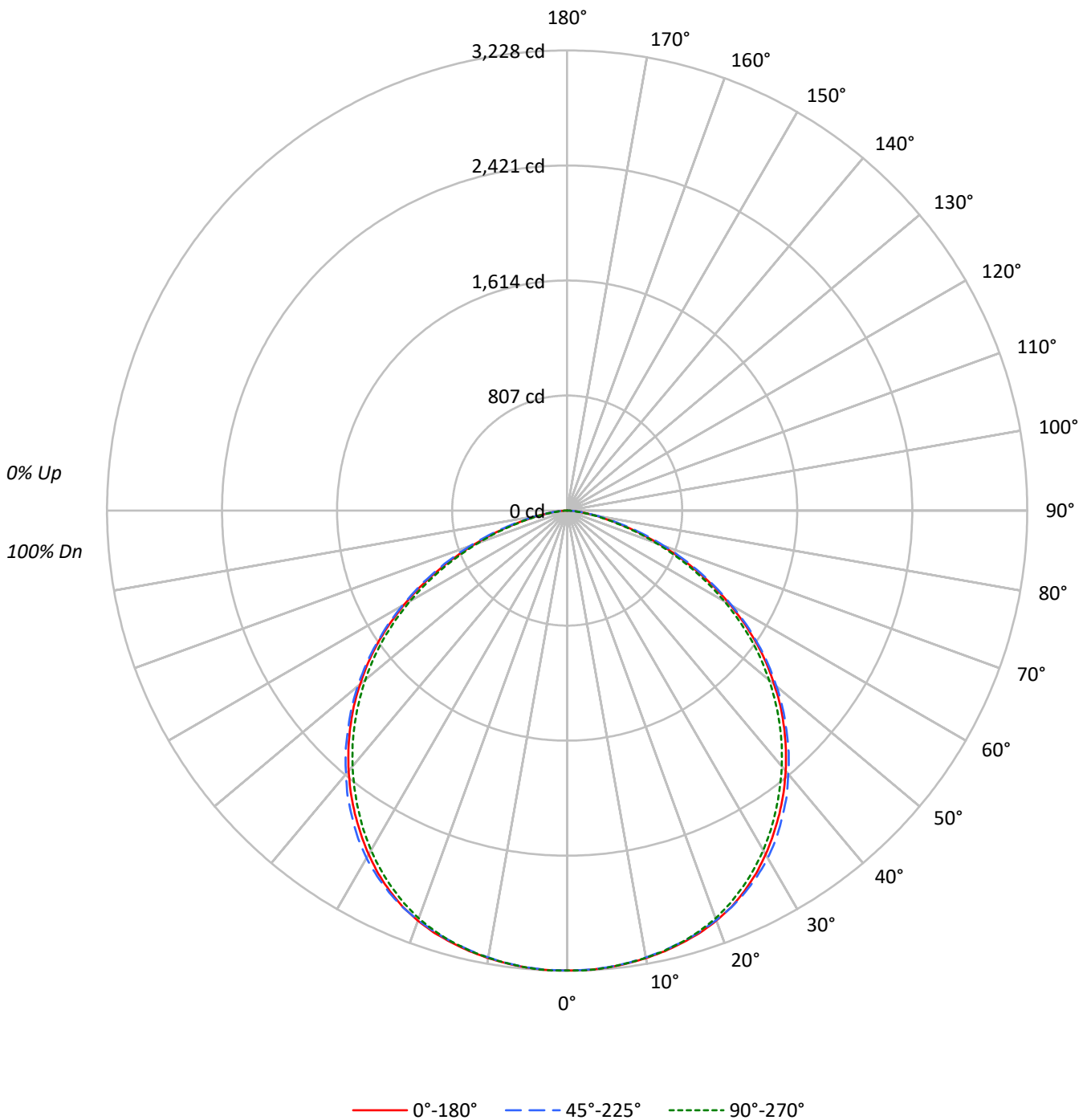
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8818.0 lumens
Efficiency: N/A
Efficacy: 113.9 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): 77.4
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: P413171
CATALOG NUMBER: 24PD-10-PC3-L950

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°	4341	4341	4341
5°	4346	4344	4348
10°	4355	4349	4353
15°	4369	4361	4362
20°	4384	4377	4358
25°	4372	4387	4326
30°	4328	4373	4274
35°	4264	4318	4199
40°	4189	4239	4114
45°	4095	4139	4010
50°	3967	4012	3870
55°	3805	3838	3692
60°	3552	3593	3429
65°	3201	3280	3075
70°	2718	2837	2609
75°	2104	2258	2007
80°	1565	1634	1420
85°	966	1034	897



TEST NUMBER: P413171

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.0	3.5
10°-20°	884.7	10.0
20°-30°	1354.9	15.4
30°-40°	1629.9	18.5
40°-50°	1662.1	18.8
50°-60°	1440.9	16.3
60°-70°	999.0	11.3
70°-80°	456.3	5.2
80°-90°	84.2	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°	2545.6	28.9
0°-40°	4175.6	47.4
0°-60°	7278.5	82.5
0°-90°	8818.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8818.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3226	3226	3226	3226	3226	
5°	3218	3218	3216	3214	3219	306
15°	3137	3136	3130	3128	3131	886
25°	2945	2953	2955	2929	2914	1356
35°	2596	2624	2629	2595	2557	1623
45°	2152	2179	2175	2146	2107	1658
55°	1622	1632	1636	1596	1574	1445
65°	1005	1027	1030	996	966	994
75°	405	427	434	420	386	443
85°	63	64	67	63	58	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3226.1	3226.1	3226.1	3226.1	3226.1
2.5°	3226.1	3226.1	3224.3	3222.5	3227.9
5°	3218.0	3218.0	3216.2	3214.5	3218.9
7.5°	3205.5	3204.6	3202.8	3201.1	3203.7
10°	3187.6	3186.8	3183.2	3182.3	3185.9
12.5°	3165.3	3164.4	3159.1	3159.1	3161.7
15°	3136.7	3135.8	3130.5	3127.8	3131.3
17.5°	3104.5	3103.6	3097.4	3090.2	3092.0
20°	3061.6	3061.6	3057.2	3046.5	3043.8
22.5°	3009.8	3012.5	3012.5	2991.9	2983.9
25°	2944.6	2952.6	2955.3	2929.4	2914.2
27.5°	2870.4	2882.9	2890.1	2857.0	2837.3
30°	2785.5	2806.1	2815.0	2779.2	2750.7
32.5°	2692.6	2718.5	2729.2	2694.4	2657.7
35°	2596.1	2623.8	2629.1	2595.2	2556.7
37.5°	2493.3	2521.9	2529.0	2498.6	2451.3
40°	2385.2	2413.7	2413.7	2388.7	2342.3
42.5°	2270.8	2301.1	2300.3	2269.9	2227.9
45°	2151.9	2178.7	2175.1	2145.7	2107.2
47.5°	2029.5	2046.5	2050.9	2016.1	1979.4
50°	1895.4	1912.4	1916.9	1877.6	1849.0
52.5°	1763.2	1773.9	1780.1	1734.6	1714.0
55°	1622.0	1631.8	1636.3	1596.1	1573.7
57.5°	1472.7	1485.2	1490.6	1450.4	1425.4
60°	1319.9	1333.3	1335.1	1297.6	1274.3
62.5°	1164.4	1182.3	1185.9	1148.3	1120.6
65°	1005.4	1026.8	1030.4	995.5	966.0
67.5°	846.3	874.9	875.8	847.2	812.3
70°	690.8	722.1	721.2	697.0	663.1
72.5°	542.4	571.0	577.3	555.0	521.9
75°	404.8	427.2	434.3	420.0	386.1
77.5°	287.8	308.3	314.6	301.2	276.1
80°	202.0	202.9	210.9	200.2	183.2
82.5°	125.1	123.3	126.0	121.5	111.7
85°	62.6	64.3	67.0	63.4	58.1
87.5°	21.4	22.3	24.1	24.1	21.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)