

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: P413288

Luminaire Tested: **24PD-90-PC3-L950**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413288
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-90-PC3-L950
Description: 9000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

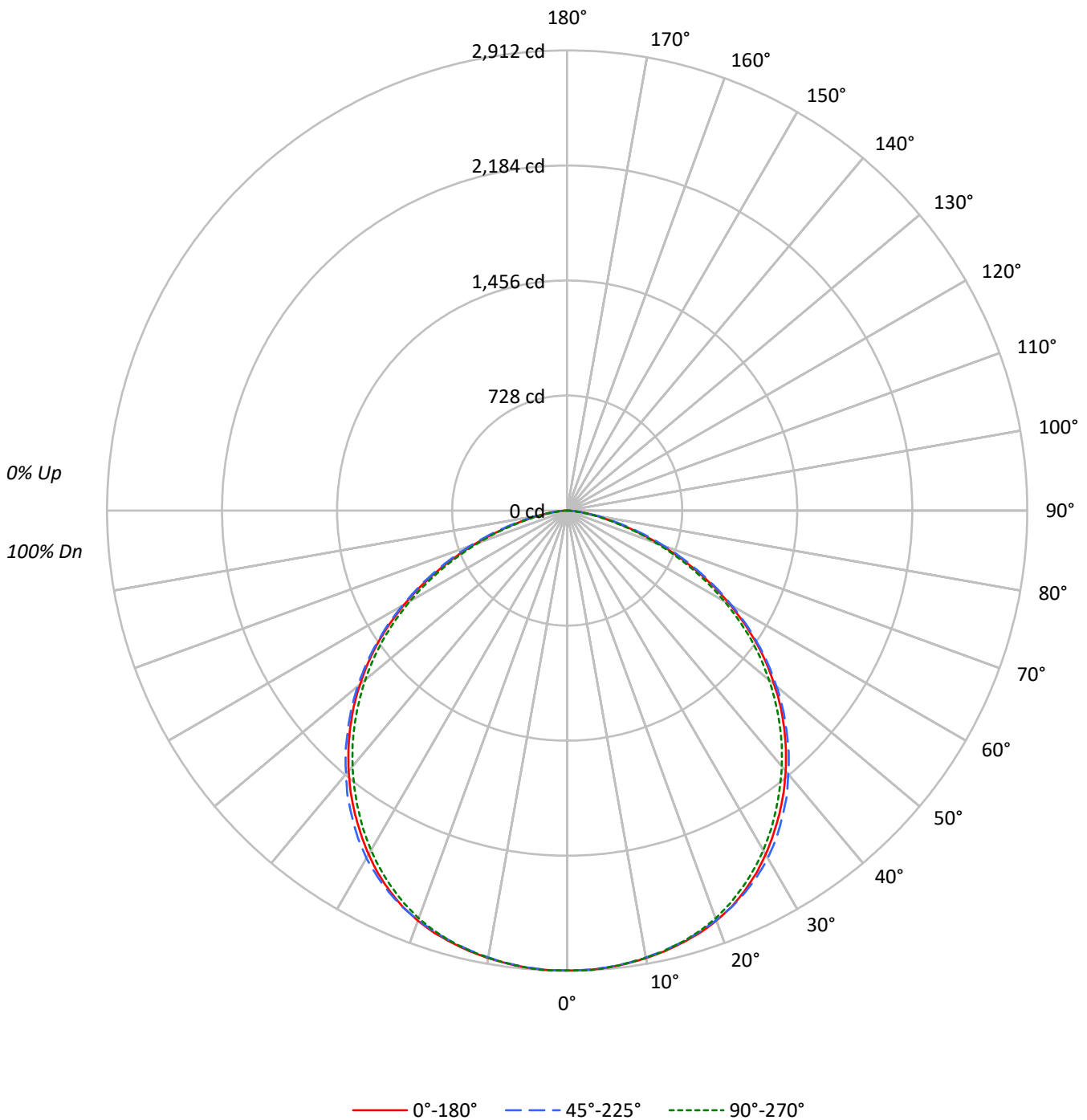
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7955.0 lumens
Efficiency: N/A
Efficacy: 115.8 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): 68.7
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

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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°	3916	3916	3916
5°	3921	3919	3922
10°	3929	3923	3927
15°	3942	3934	3935
20°	3955	3949	3932
25°	3944	3958	3903
30°	3904	3945	3855
35°	3847	3896	3789
40°	3779	3825	3711
45°	3694	3734	3617
50°	3579	3620	3491
55°	3432	3463	3330
60°	3204	3241	3094
65°	2888	2959	2775
70°	2452	2559	2353
75°	1899	2037	1811
80°	1412	1475	1281
85°	871	934	809



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.1	3.5
10°-20°	798.1	10.0
20°-30°	1222.3	15.4
30°-40°	1470.4	18.5
40°-50°	1499.4	18.8
50°-60°	1299.9	16.3
60°-70°	901.2	11.3
70°-80°	411.6	5.2
80°-90°	76.0	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°	2296.5	28.9
0°-40°	3766.9	47.4
0°-60°	6566.2	82.5
0°-90°	7955.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7955.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2910	2910	2910	2910	2910	
5°	2903	2903	2902	2900	2904	276
15°	2830	2829	2824	2822	2825	800
25°	2656	2664	2666	2643	2629	1223
35°	2342	2367	2372	2341	2306	1464
45°	1941	1966	1962	1936	1901	1496
55°	1463	1472	1476	1440	1420	1304
65°	907	926	930	898	872	897
75°	365	385	392	379	348	399
85°	56	58	60	57	52	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2910.3	2910.3	2910.3	2910.3	2910.3
2.5°	2910.3	2910.3	2908.7	2907.1	2912.0
5°	2903.1	2903.1	2901.5	2899.9	2903.9
7.5°	2891.8	2891.0	2889.4	2887.8	2890.2
10°	2875.7	2874.9	2871.6	2870.8	2874.1
12.5°	2855.5	2854.7	2849.9	2849.9	2852.3
15°	2829.7	2828.9	2824.1	2821.7	2824.9
17.5°	2800.7	2799.9	2794.3	2787.8	2789.4
20°	2762.0	2762.0	2758.0	2748.3	2745.9
22.5°	2715.2	2717.7	2717.7	2699.1	2691.9
25°	2656.4	2663.7	2666.1	2642.7	2629.0
27.5°	2589.5	2600.8	2607.2	2577.4	2559.7
30°	2512.9	2531.4	2539.5	2507.3	2481.5
32.5°	2429.0	2452.4	2462.1	2430.7	2397.6
35°	2342.0	2367.0	2371.8	2341.2	2306.5
37.5°	2249.3	2275.1	2281.5	2254.1	2211.4
40°	2151.7	2177.5	2177.5	2154.9	2113.0
42.5°	2048.5	2075.9	2075.1	2047.7	2009.8
45°	1941.3	1965.5	1962.3	1935.7	1901.0
47.5°	1830.9	1846.2	1850.2	1818.8	1785.7
50°	1709.9	1725.2	1729.3	1693.8	1668.0
52.5°	1590.6	1600.3	1605.9	1564.8	1546.3
55°	1463.2	1472.1	1476.1	1439.9	1419.7
57.5°	1328.6	1339.9	1344.7	1308.4	1285.9
60°	1190.7	1202.8	1204.4	1170.6	1149.6
62.5°	1050.5	1066.6	1069.8	1036.0	1011.0
65°	907.0	926.3	929.5	898.1	871.5
67.5°	763.5	789.3	790.1	764.3	732.8
70°	623.2	651.4	650.6	628.8	598.2
72.5°	489.4	515.2	520.8	500.6	470.8
75°	365.2	385.4	391.8	378.9	348.3
77.5°	259.6	278.1	283.8	271.7	249.1
80°	182.2	183.0	190.3	180.6	165.3
82.5°	112.9	111.3	113.7	109.6	100.8
85°	56.4	58.0	60.5	57.2	52.4
87.5°	19.3	20.2	21.8	21.8	19.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)