

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: P413286

Luminaire Tested: **24PD-90-PC3-L935**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413286
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-L935
Description: 9000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

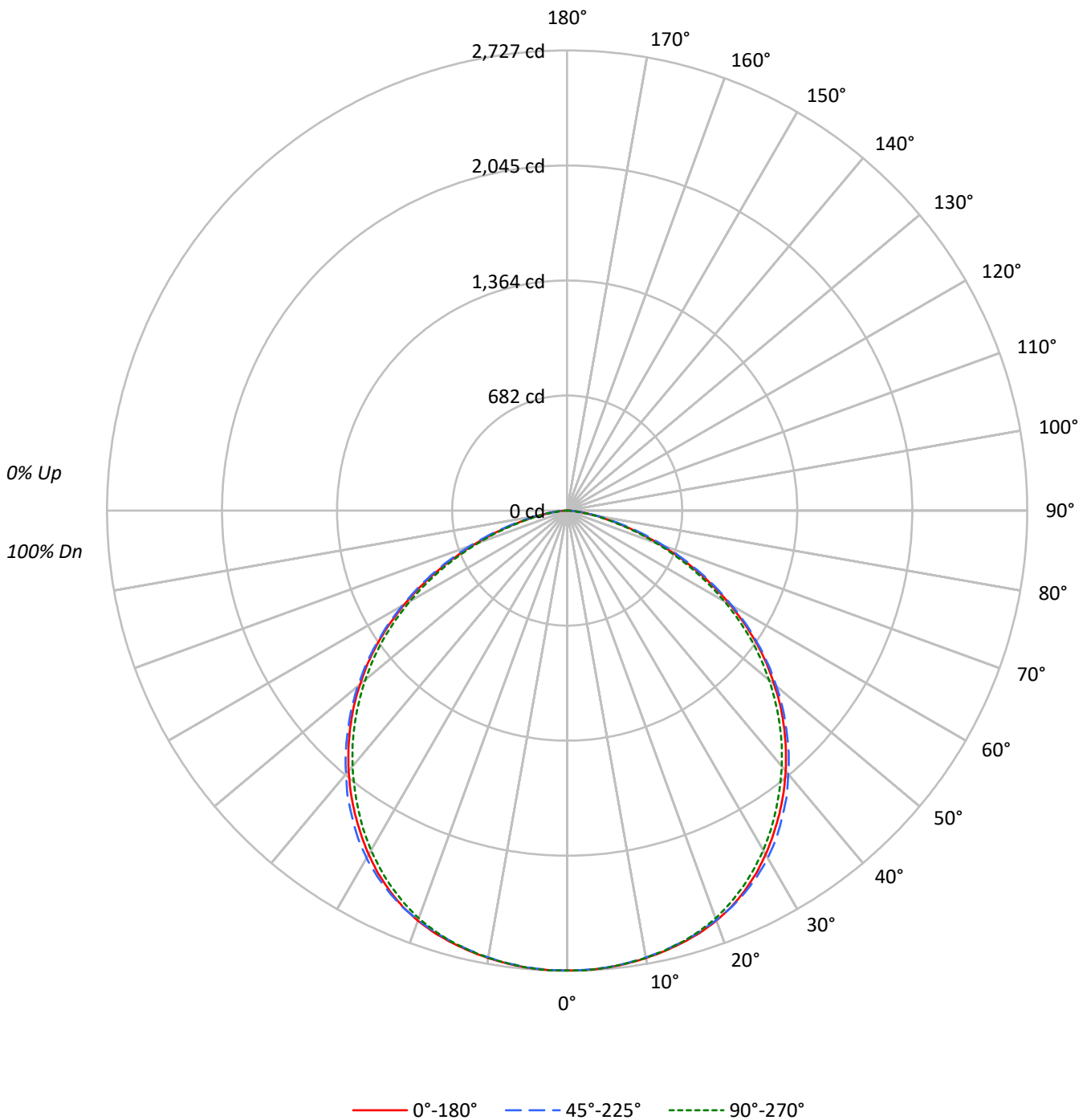
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7449.0 lumens
Efficiency: N/A
Efficacy: 108.4 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): 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°	3667	3667	3667
5°	3672	3670	3673
10°	3679	3674	3677
15°	3691	3684	3685
20°	3703	3698	3682
25°	3693	3706	3655
30°	3656	3695	3610
35°	3602	3648	3548
40°	3539	3581	3475
45°	3459	3496	3387
50°	3352	3390	3269
55°	3214	3242	3118
60°	3000	3035	2897
65°	2704	2771	2598
70°	2295	2397	2203
75°	1778	1907	1695
80°	1322	1381	1199
85°	815	874	758



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.5	3.5
10°-20°	747.4	10.0
20°-30°	1144.5	15.4
30°-40°	1376.9	18.5
40°-50°	1404.0	18.8
50°-60°	1217.2	16.3
60°-70°	843.9	11.3
70°-80°	385.4	5.2
80°-90°	71.2	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°	2150.4	28.9
0°-40°	3527.3	47.4
0°-60°	6148.5	82.5
0°-90°	7449.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7449.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2725	2725	2725	2725	2725	
5°	2718	2718	2717	2715	2719	259
15°	2650	2649	2644	2642	2645	749
25°	2487	2494	2496	2475	2462	1145
35°	2193	2216	2221	2192	2160	1371
45°	1818	1840	1838	1812	1780	1401
55°	1370	1378	1382	1348	1329	1221
65°	849	867	870	841	816	840
75°	342	361	367	355	326	374
85°	53	54	57	54	49	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2725.2	2725.2	2725.2	2725.2	2725.2
2.5°	2725.2	2725.2	2723.7	2722.2	2726.7
5°	2718.4	2718.4	2716.9	2715.4	2719.2
7.5°	2707.9	2707.1	2705.6	2704.1	2706.4
10°	2692.8	2692.0	2689.0	2688.2	2691.3
12.5°	2673.9	2673.1	2668.6	2668.6	2670.9
15°	2649.7	2649.0	2644.4	2642.2	2645.2
17.5°	2622.6	2621.8	2616.5	2610.5	2612.0
20°	2586.3	2586.3	2582.5	2573.5	2571.2
22.5°	2542.5	2544.8	2544.8	2527.4	2520.6
25°	2487.4	2494.2	2496.5	2474.6	2461.8
27.5°	2424.8	2435.3	2441.4	2413.4	2396.8
30°	2353.1	2370.4	2378.0	2347.8	2323.6
32.5°	2274.5	2296.4	2305.5	2276.1	2245.1
35°	2193.0	2216.4	2220.9	2192.3	2159.8
37.5°	2106.2	2130.4	2136.4	2110.7	2070.7
40°	2014.9	2039.0	2039.0	2017.9	1978.6
42.5°	1918.2	1943.9	1943.1	1917.5	1882.0
45°	1817.8	1840.5	1837.5	1812.5	1780.1
47.5°	1714.4	1728.7	1732.5	1703.1	1672.1
50°	1601.2	1615.5	1619.3	1586.1	1561.9
52.5°	1489.4	1498.5	1503.8	1465.3	1447.9
55°	1370.2	1378.5	1382.2	1348.3	1329.4
57.5°	1244.1	1254.7	1259.2	1225.2	1204.1
60°	1115.0	1126.3	1127.8	1096.1	1076.5
62.5°	983.6	998.7	1001.8	970.1	946.7
65°	849.3	867.4	870.4	841.0	816.1
67.5°	714.9	739.1	739.8	715.7	686.2
70°	583.5	610.0	609.2	588.8	560.1
72.5°	458.2	482.4	487.7	468.8	440.9
75°	342.0	360.8	366.9	354.8	326.1
77.5°	243.1	260.4	265.7	254.4	233.3
80°	170.6	171.4	178.2	169.1	154.8
82.5°	105.7	104.2	106.4	102.7	94.4
85°	52.8	54.4	56.6	53.6	49.1
87.5°	18.1	18.9	20.4	20.4	18.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)