

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: P413270

Luminaire Tested: **24PD-80-PC3-L950**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413270
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-L950
Description: 8000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

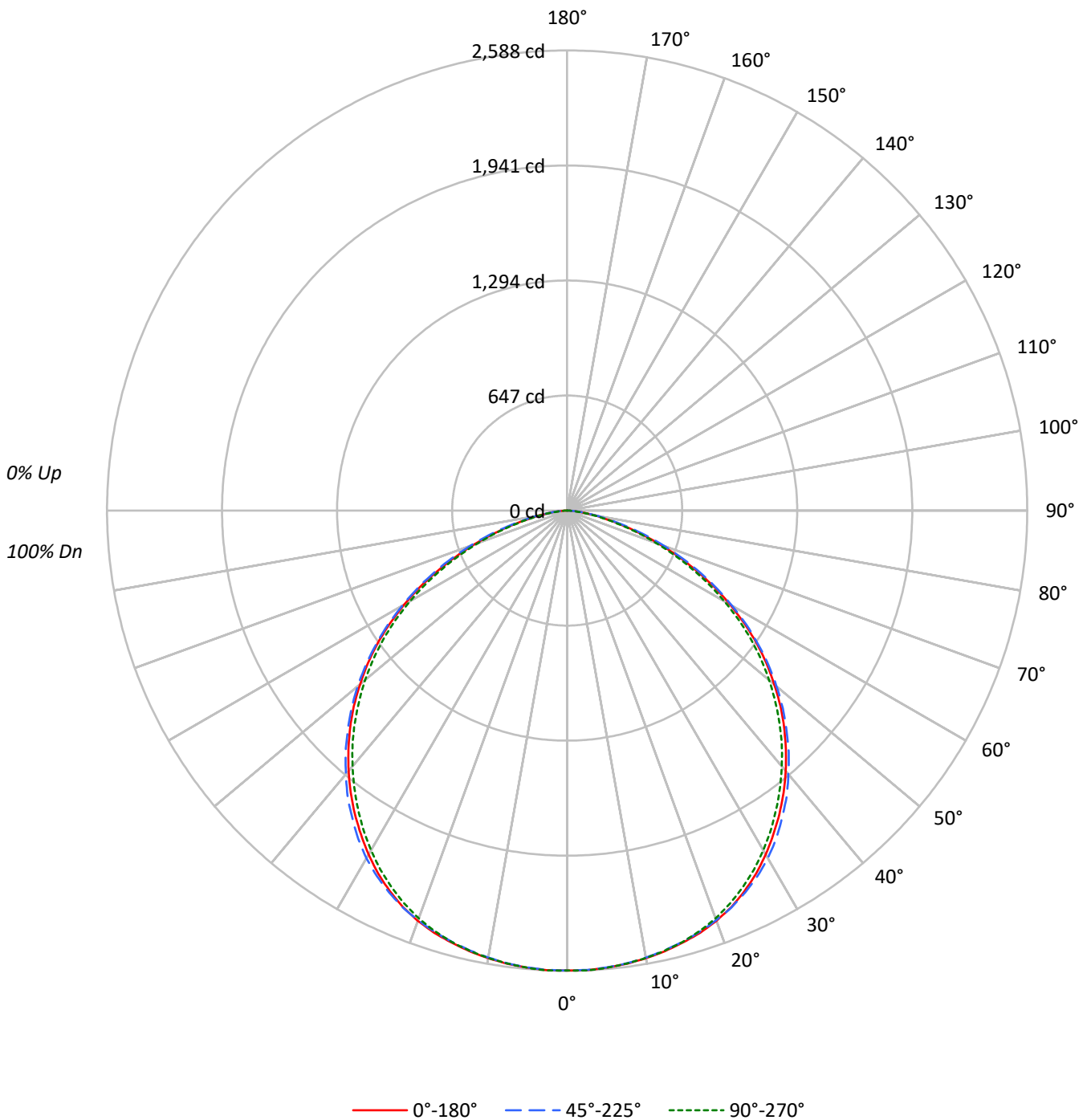
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7071.0 lumens
Efficiency: N/A
Efficacy: 117.3 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

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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°	3481	3481	3481
5°	3485	3483	3486
10°	3492	3487	3490
15°	3504	3497	3498
20°	3515	3510	3495
25°	3505	3518	3469
30°	3470	3507	3427
35°	3419	3463	3368
40°	3359	3400	3299
45°	3283	3319	3215
50°	3181	3217	3103
55°	3051	3078	2960
60°	2848	2881	2750
65°	2567	2630	2466
70°	2179	2275	2092
75°	1687	1811	1609
80°	1255	1310	1138
85°	775	829	719



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.4	3.5
10°-20°	709.4	10.0
20°-30°	1086.4	15.4
30°-40°	1307.0	18.5
40°-50°	1332.8	18.8
50°-60°	1155.4	16.3
60°-70°	801.0	11.3
70°-80°	365.9	5.2
80°-90°	67.6	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°	2041.3	28.9
0°-40°	3348.3	47.4
0°-60°	5836.5	82.5
0°-90°	7071.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7071.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2587	2587	2587	2587	2587	
5°	2580	2580	2579	2578	2581	246
15°	2515	2515	2510	2508	2511	711
25°	2361	2368	2370	2349	2337	1087
35°	2082	2104	2108	2081	2050	1302
45°	1726	1747	1744	1721	1690	1330
55°	1301	1308	1312	1280	1262	1159
65°	806	823	826	798	775	797
75°	325	342	348	337	310	355
85°	50	52	54	51	47	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2586.9	2586.9	2586.9	2586.9	2586.9
2.5°	2586.9	2586.9	2585.5	2584.1	2588.4
5°	2580.5	2580.5	2579.1	2577.6	2581.2
7.5°	2570.5	2569.7	2568.3	2566.9	2569.0
10°	2556.1	2555.4	2552.5	2551.8	2554.7
12.5°	2538.2	2537.5	2533.2	2533.2	2535.3
15°	2515.3	2514.6	2510.3	2508.1	2511.0
17.5°	2489.5	2488.8	2483.7	2478.0	2479.4
20°	2455.1	2455.1	2451.5	2442.9	2440.7
22.5°	2413.5	2415.7	2415.7	2399.2	2392.7
25°	2361.2	2367.7	2369.8	2349.0	2336.8
27.5°	2301.7	2311.8	2317.5	2291.0	2275.2
30°	2233.6	2250.1	2257.3	2228.6	2205.7
32.5°	2159.1	2179.9	2188.5	2160.6	2131.2
35°	2081.7	2103.9	2108.2	2081.0	2050.2
37.5°	1999.3	2022.3	2028.0	2003.6	1965.6
40°	1912.6	1935.5	1935.5	1915.5	1878.2
42.5°	1820.9	1845.2	1844.5	1820.2	1786.5
45°	1725.6	1747.1	1744.2	1720.6	1689.7
47.5°	1627.4	1641.0	1644.6	1616.7	1587.3
50°	1519.9	1533.5	1537.1	1505.6	1482.6
52.5°	1413.9	1422.5	1427.5	1390.9	1374.4
55°	1300.6	1308.5	1312.1	1279.9	1261.9
57.5°	1181.0	1191.0	1195.3	1163.0	1143.0
60°	1058.4	1069.2	1070.6	1040.5	1021.9
62.5°	933.7	948.1	950.9	920.8	898.6
65°	806.2	823.4	826.2	798.3	774.6
67.5°	678.6	701.6	702.3	679.3	651.4
70°	553.9	579.0	578.3	558.9	531.7
72.5°	435.0	457.9	462.9	445.0	418.5
75°	324.6	342.5	348.3	336.8	309.6
77.5°	230.7	247.2	252.2	241.5	221.4
80°	162.0	162.7	169.1	160.5	146.9
82.5°	100.3	98.9	101.0	97.5	89.6
85°	50.2	51.6	53.7	50.9	46.6
87.5°	17.2	17.9	19.3	19.3	17.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)