

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: P413278

Luminaire Tested: **24PD-85-PC3-L940**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413278
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-85-PC3-L940
Description: 8500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

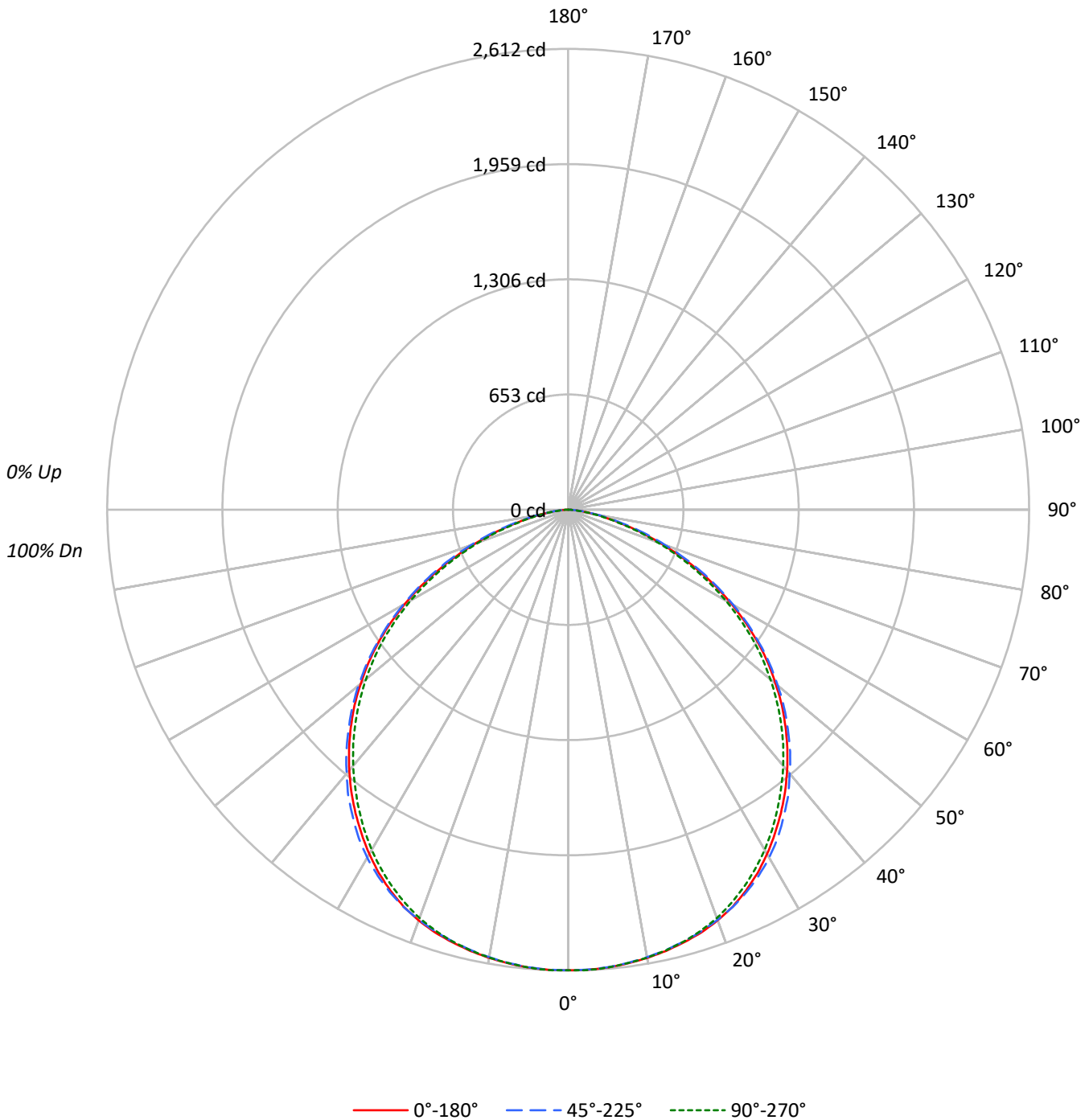
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7135.0 lumens
Efficiency: N/A
Efficacy: 110.6 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): 64.5
Input Voltage (V): NR
Input Current (A_{in}): 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°	3512	3512	3512
5°	3517	3515	3518
10°	3524	3519	3522
15°	3535	3528	3529
20°	3547	3542	3526
25°	3537	3550	3501
30°	3502	3539	3458
35°	3450	3494	3398
40°	3390	3430	3329
45°	3313	3349	3244
50°	3210	3247	3132
55°	3079	3106	2987
60°	2874	2907	2775
65°	2590	2654	2489
70°	2199	2295	2111
75°	1703	1827	1624
80°	1266	1322	1148
85°	781	837	726



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.6	3.5
10°-20°	715.9	10.0
20°-30°	1096.3	15.4
30°-40°	1318.8	18.5
40°-50°	1344.8	18.8
50°-60°	1165.9	16.3
60°-70°	808.3	11.3
70°-80°	369.2	5.2
80°-90°	68.2	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°	2059.8	28.9
0°-40°	3378.6	47.4
0°-60°	5889.3	82.5
0°-90°	7135.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7135.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2610	2610	2610	2610	2610	
5°	2604	2604	2602	2601	2605	248
15°	2538	2537	2533	2531	2534	717
25°	2383	2389	2391	2370	2358	1097
35°	2101	2123	2127	2100	2069	1313
45°	1741	1763	1760	1736	1705	1342
55°	1312	1320	1324	1291	1273	1169
65°	814	831	834	806	782	804
75°	328	346	351	340	312	358
85°	51	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°	2610.3	2610.3	2610.3	2610.3	2610.3
2.5°	2610.3	2610.3	2608.9	2607.5	2611.8
5°	2603.8	2603.8	2602.4	2600.9	2604.6
7.5°	2593.7	2593.0	2591.5	2590.1	2592.3
10°	2579.3	2578.5	2575.6	2574.9	2577.8
12.5°	2561.2	2560.5	2556.1	2556.1	2558.3
15°	2538.0	2537.3	2533.0	2530.8	2533.7
17.5°	2512.0	2511.3	2506.2	2500.4	2501.9
20°	2477.3	2477.3	2473.7	2465.0	2462.8
22.5°	2435.4	2437.5	2437.5	2420.9	2414.4
25°	2382.6	2389.1	2391.3	2370.3	2358.0
27.5°	2322.6	2332.7	2338.5	2311.7	2295.8
30°	2253.9	2270.5	2277.7	2248.8	2225.7
32.5°	2178.7	2199.6	2208.3	2180.1	2150.5
35°	2100.6	2123.0	2127.3	2099.8	2068.8
37.5°	2017.4	2040.6	2046.3	2021.8	1983.4
40°	1929.9	1953.1	1953.1	1932.8	1895.2
42.5°	1837.4	1862.0	1861.2	1836.6	1802.7
45°	1741.2	1762.9	1760.0	1736.1	1705.0
47.5°	1642.1	1655.9	1659.5	1631.3	1601.6
50°	1533.7	1547.4	1551.0	1519.2	1496.1
52.5°	1426.7	1435.3	1440.4	1403.5	1386.9
55°	1312.4	1320.4	1324.0	1291.4	1273.4
57.5°	1191.6	1201.8	1206.1	1173.6	1153.3
60°	1068.0	1078.8	1080.3	1049.9	1031.1
62.5°	942.2	956.6	959.5	929.2	906.8
65°	813.5	830.8	833.7	805.5	781.7
67.5°	684.8	707.9	708.6	685.5	657.3
70°	558.9	584.3	583.5	564.0	536.5
72.5°	438.9	462.1	467.1	449.0	422.3
75°	327.6	345.6	351.4	339.9	312.4
77.5°	232.8	249.5	254.5	243.7	223.4
80°	163.4	164.1	170.6	162.0	148.2
82.5°	101.2	99.8	102.0	98.3	90.4
85°	50.6	52.1	54.2	51.3	47.0
87.5°	17.4	18.1	19.5	19.5	17.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)