

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: P413161

Luminaire Tested: **22PD-85-PC3-L940**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413161
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-15)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22PD-85-PC3-L940
Description: 8500 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

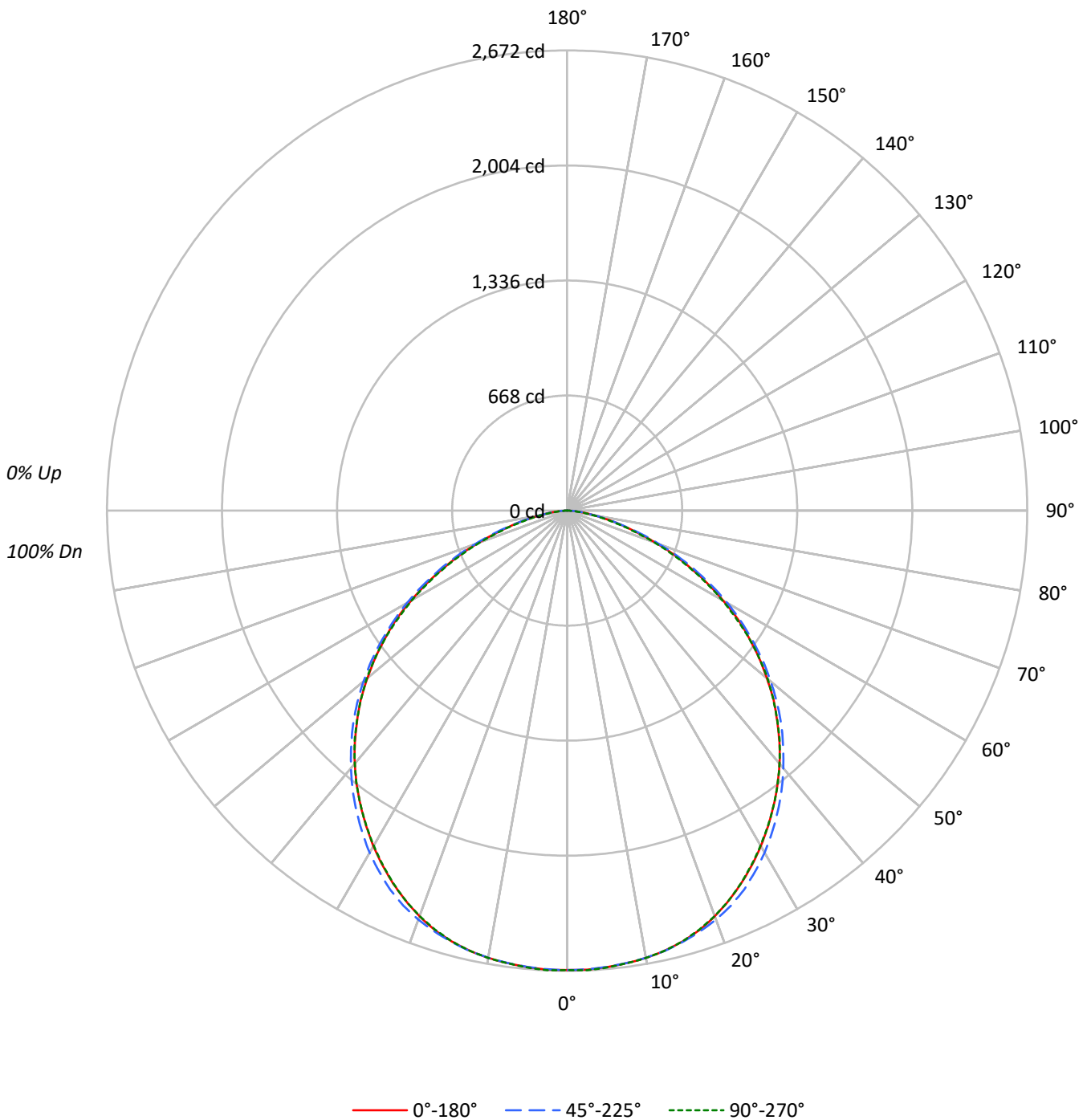
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7168.0 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 77.3
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

TEST NUMBER: P413161
CATALOG NUMBER: 22PD-85-PC3-L940

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	110	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	76		80	77	74	72
3	91	81	73	67	89	80	72	67	77	70	65		74	69	64		71	67	63	61
4	84	72	64	57	82	71	63	57	68	61	56		66	60	55		64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	49		59	53	48		58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43		54	47	42		52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38		49	42	37		48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34		45	38	34		44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30		41	35	30		40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28		38	32	28		38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7180	7180	7180
5°	7189	7185	7194
10°	7207	7205	7207
15°	7216	7225	7214
20°	7179	7237	7174
25°	7096	7212	7091
30°	6991	7128	6980
35°	6869	7006	6869
40°	6740	6860	6740
45°	6563	6692	6572
50°	6338	6463	6363
55°	6044	6163	6044
60°	5637	5778	5600
65°	5058	5237	4993
70°	4327	4481	4200
75°	3432	3530	3256
80°	2459	2551	2342
85°	1624	1677	1519



TEST NUMBER: P413161

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.2	3.5
10°-20°	731.2	10.2
20°-30°	1109.4	15.5
30°-40°	1324.9	18.5
40°-50°	1347.4	18.8
50°-60°	1165.5	16.3
60°-70°	802.0	11.2
70°-80°	364.0	5.1
80°-90°	70.4	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°	2093.8	29.2
0°-40°	3418.7	47.7
0°-60°	5931.6	82.8
0°-90°	7168.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7168.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2668	2668	2668	2668	2668	
5°	2661	2659	2660	2660	2663	253
15°	2590	2592	2594	2589	2589	731
25°	2390	2411	2429	2407	2388	1101
35°	2091	2128	2133	2125	2091	1308
45°	1724	1756	1758	1757	1727	1330
55°	1288	1310	1314	1311	1288	1151
65°	794	816	822	816	784	788
75°	330	343	340	336	313	355
85°	53	56	54	53	49	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2668.2	2668.2	2668.2	2668.2	2668.2
2.5°	2668.2	2664.8	2665.7	2666.5	2671.6
5°	2661.4	2658.9	2659.7	2659.7	2663.1
7.5°	2650.4	2649.5	2649.5	2648.7	2651.2
10°	2637.7	2636.0	2636.8	2636.0	2637.7
12.5°	2618.1	2618.1	2619.0	2616.4	2618.1
15°	2590.1	2591.8	2593.5	2589.3	2589.3
17.5°	2554.5	2558.7	2563.0	2555.3	2551.1
20°	2507.0	2517.1	2527.3	2515.4	2505.3
22.5°	2451.8	2468.8	2484.0	2465.4	2451.8
25°	2389.8	2411.1	2428.9	2406.8	2388.1
27.5°	2322.8	2346.6	2363.5	2344.9	2319.4
30°	2249.8	2278.7	2293.9	2276.1	2246.4
32.5°	2171.7	2205.7	2215.0	2204.0	2170.0
35°	2091.1	2128.5	2132.7	2125.1	2091.1
37.5°	2007.1	2042.7	2046.1	2041.9	2007.1
40°	1918.8	1951.9	1952.8	1952.8	1918.8
42.5°	1824.6	1856.9	1856.9	1856.0	1827.2
45°	1724.5	1755.9	1758.4	1756.7	1727.0
47.5°	1625.2	1649.0	1653.2	1649.8	1623.5
50°	1514.0	1538.6	1543.7	1540.3	1520.0
52.5°	1403.7	1426.6	1431.7	1429.2	1406.2
55°	1288.3	1310.3	1313.7	1311.2	1288.3
57.5°	1177.1	1191.5	1194.9	1189.8	1161.0
60°	1047.3	1067.6	1073.6	1067.6	1040.5
62.5°	921.7	943.7	948.8	940.3	911.5
65°	794.4	816.4	822.4	815.6	784.2
67.5°	673.8	690.0	695.1	687.4	658.6
70°	549.9	570.3	569.5	559.3	533.8
72.5°	427.7	455.7	450.6	444.7	416.7
75°	330.1	342.9	339.5	336.1	313.2
77.5°	235.9	251.2	242.7	243.6	224.0
80°	158.7	173.1	164.6	161.2	151.1
82.5°	101.0	106.9	105.2	103.5	94.2
85°	52.6	56.0	54.3	52.6	49.2
87.5°	20.4	22.1	20.4	20.4	18.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)