

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: P412735

Luminaire Tested: **22PD-40-PP3-L927**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412735
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-16)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22PD-40-PP3-L927
Description: 4000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 2700 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

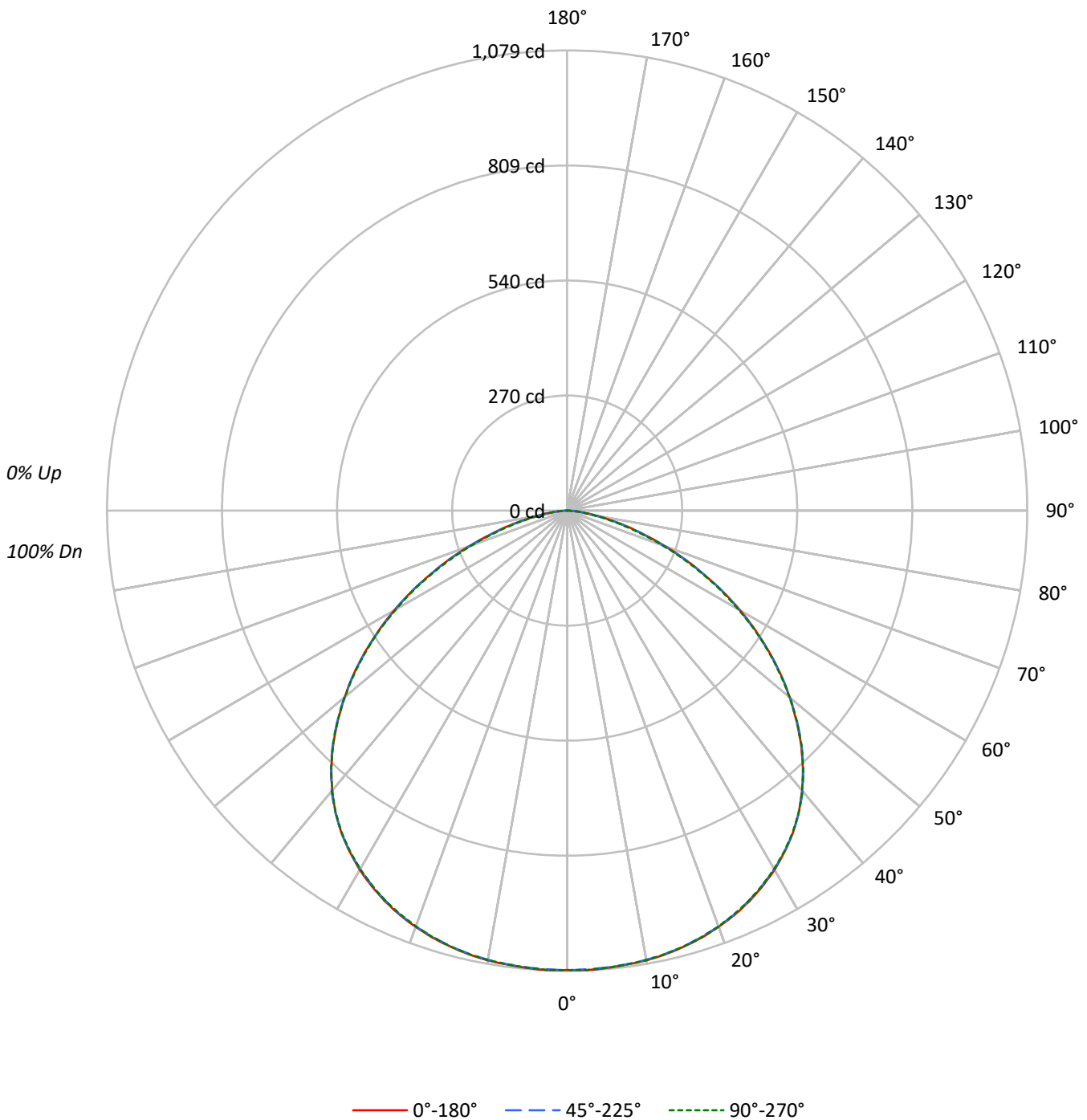
Lumens per Lamp: N/A
Luminaire Lumens: 3091.0 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.43
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.8
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	98	95	93		95	92	90		91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77		83	79	75		80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71	67	63	61
4	84	72	63	57	81	70	62	56	68	61	55		66	60	55		64	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48		59	53	47		57	51	47	45
6	71	58	49	43	69	57	48	42	55	48	42		53	47	42		52	46	41	39
7	66	52	44	38	64	52	43	37	50	43	37		49	42	37		47	41	37	35
8	61	48	39	33	60	47	39	33	46	38	33		44	38	33		43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30		41	34	30		40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27		38	31	27		37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2899	2899	2899
5°	2908	2904	2906
10°	2926	2922	2924
15°	2949	2946	2946
20°	2975	2972	2971
25°	3001	2996	2996
30°	3022	3017	3016
35°	3031	3031	3028
40°	3011	3018	3011
45°	2951	2960	2955
50°	2852	2857	2849
55°	2715	2708	2704
60°	2521	2515	2496
65°	2252	2249	2224
70°	1924	1913	1871
75°	1534	1489	1444
80°	1093	1071	1015
85°	710	710	689



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.5	3.3
10°-20°	298.9	9.7
20°-30°	465.3	15.1
30°-40°	576.0	18.6
40°-50°	597.2	19.3
50°-60°	514.8	16.7
60°-70°	350.0	11.3
70°-80°	156.6	5.1
80°-90°	29.8	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°	866.7	28.0
0°-40°	1442.6	46.7
0°-60°	2554.6	82.6
0°-90°	3091.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3091.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1077	1077	1077	1077	1077	
5°	1077	1074	1075	1075	1076	103
15°	1059	1057	1058	1057	1058	299
25°	1011	1009	1009	1009	1009	466
35°	923	922	923	921	922	576
45°	776	775	778	776	777	597
55°	579	577	577	576	576	516
65°	354	356	353	352	349	351
75°	148	148	143	142	139	159
85°	23	24	23	22	22	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1077.4	1077.4	1077.4	1077.4	1077.4
2.5°	1078.8	1076.6	1076.6	1077.0	1078.1
5°	1076.6	1074.5	1075.2	1074.8	1075.9
7.5°	1073.8	1072.0	1073.0	1072.3	1073.0
10°	1070.9	1069.1	1069.4	1069.1	1070.2
12.5°	1065.8	1063.7	1064.4	1064.4	1064.8
15°	1058.6	1056.8	1057.6	1056.8	1057.6
17.5°	1050.0	1047.9	1048.2	1047.9	1048.6
20°	1038.9	1037.4	1037.8	1037.1	1037.4
22.5°	1026.3	1024.5	1024.8	1024.1	1024.1
25°	1010.8	1009.4	1009.0	1008.6	1009.0
27.5°	992.8	991.0	991.0	990.7	990.7
30°	972.7	970.9	970.9	970.5	970.5
32.5°	948.9	948.2	948.6	947.9	947.5
35°	922.7	921.6	922.7	921.2	921.6
37.5°	892.1	890.7	892.8	891.4	891.7
40°	857.2	856.5	859.0	857.9	857.2
42.5°	818.4	818.4	819.4	819.8	819.1
45°	775.5	774.8	777.7	775.9	776.6
47.5°	729.5	728.4	730.6	730.2	729.9
50°	681.3	680.6	682.4	680.6	680.6
52.5°	631.3	630.9	631.3	629.5	629.1
55°	578.8	576.6	577.3	576.3	576.3
57.5°	524.1	521.6	521.9	521.6	521.9
60°	468.4	467.6	467.3	465.5	463.7
62.5°	411.2	411.9	411.5	409.0	407.2
65°	353.6	356.5	353.2	352.2	349.3
67.5°	299.3	300.4	298.2	295.7	292.4
70°	244.6	246.8	243.2	240.7	237.8
72.5°	192.4	193.9	190.6	189.2	185.6
75°	147.5	147.8	143.2	142.4	138.9
77.5°	105.0	106.5	102.9	102.9	99.3
80°	70.5	73.0	69.1	68.0	65.5
82.5°	44.2	44.6	43.5	42.4	41.4
85°	23.0	23.7	23.0	22.3	22.3
87.5°	8.6	9.0	8.6	8.3	8.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)