

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: P412362

Luminaire Tested: **22PD-25-PB1-L830**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412362
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-14)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22PD-25-PB1-L830
Description: 2500 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

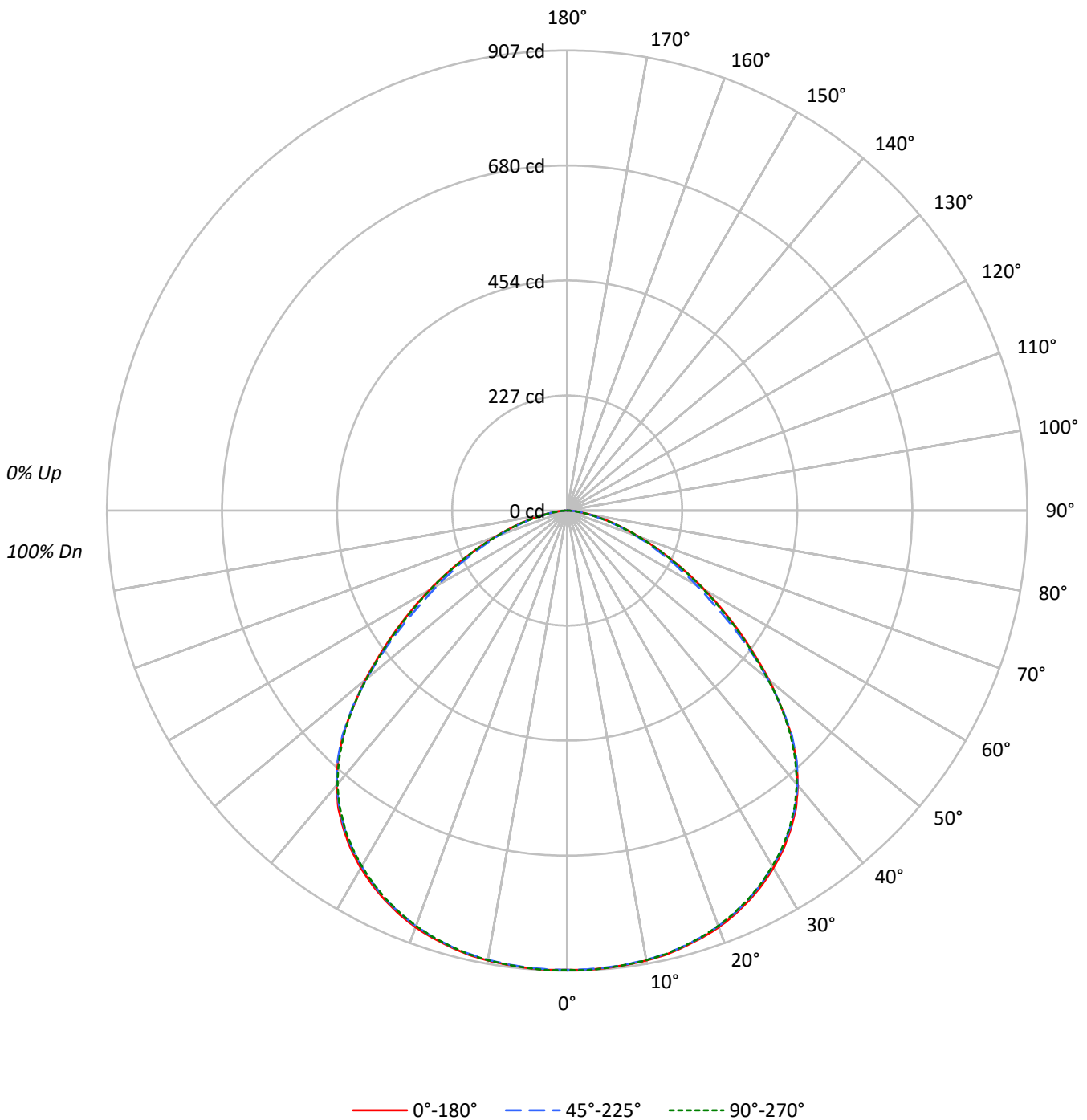
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2377.0 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.32 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	76	73
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65	63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	66	61	56	54
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	37
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	34	29	54	41	34	29	41	34	29	40	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2436	2436	2436
5°	2444	2442	2445
10°	2460	2457	2459
15°	2480	2476	2476
20°	2503	2496	2494
25°	2519	2511	2509
30°	2527	2517	2515
35°	2522	2514	2510
40°	2484	2481	2473
45°	2375	2382	2364
50°	2174	2162	2160
55°	1932	1864	1919
60°	1685	1582	1674
65°	1428	1351	1421
70°	1181	1132	1170
75°	954	893	917
80°	690	668	663
85°	451	451	432



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.1	3.6
10°-20°	251.3	10.6
20°-30°	389.9	16.4
30°-40°	478.1	20.1
40°-50°	477.9	20.1
50°-60°	362.0	15.2
60°-70°	217.1	9.1
70°-80°	95.6	4.0
80°-90°	19.0	0.8
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°	727.3	30.6
0°-40°	1205.4	50.7
0°-60°	2045.3	86.0
0°-90°	2377.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2377.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	905	905	905	905	905	
5°	905	904	904	904	905	86
15°	890	889	889	888	889	252
25°	848	847	846	844	845	391
35°	768	767	765	765	764	479
45°	624	625	626	624	621	478
55°	412	403	397	403	409	369
65°	224	216	212	216	223	224
75°	92	90	86	87	88	98
85°	15	15	15	14	14	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	905.4	905.4	905.4	905.4	905.4
2.5°	906.2	904.8	905.1	905.1	906.8
5°	904.8	903.7	904.0	903.7	905.1
7.5°	902.9	901.8	902.0	901.8	902.6
10°	900.4	899.2	899.2	898.7	899.8
12.5°	897.0	895.6	895.0	894.8	895.6
15°	890.3	889.4	888.9	888.3	888.9
17.5°	883.0	881.6	881.0	879.9	881.0
20°	874.0	872.1	871.5	870.7	871.0
22.5°	862.3	860.6	859.8	858.4	858.9
25°	848.3	846.6	845.8	844.4	844.9
27.5°	832.0	830.9	829.0	827.8	828.1
30°	813.3	812.2	809.9	809.4	809.4
32.5°	792.6	791.2	789.2	788.7	788.4
35°	767.7	767.4	765.4	764.9	764.0
37.5°	740.5	739.9	737.7	737.1	736.3
40°	707.2	706.6	706.3	705.2	704.1
42.5°	668.5	669.4	669.9	667.7	665.5
45°	624.0	624.9	626.0	624.3	621.2
47.5°	572.0	575.3	573.6	574.8	571.7
50°	519.3	519.3	516.5	517.6	516.0
52.5°	464.2	459.7	456.3	458.6	460.8
55°	411.8	402.9	397.3	402.6	409.0
57.5°	361.7	351.1	340.7	349.1	357.0
60°	313.0	300.7	294.0	300.1	311.0
62.5°	266.8	257.8	251.1	255.9	265.1
65°	224.2	216.4	212.2	215.9	223.1
67.5°	185.3	180.0	175.8	178.9	184.5
70°	150.1	148.7	143.9	145.3	148.7
72.5°	117.9	117.6	113.4	114.5	116.5
75°	91.8	89.9	85.9	87.3	88.2
77.5°	65.0	65.8	62.2	63.0	63.0
80°	44.5	45.9	43.1	42.6	42.8
82.5°	28.3	28.3	28.0	27.7	26.9
85°	14.6	15.1	14.6	14.0	14.0
87.5°	5.6	5.6	5.6	5.3	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)