

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: P412356

Luminaire Tested: **22PD-20-PB1-L850**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412356
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-20-PB1-L850
Description: 2000 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

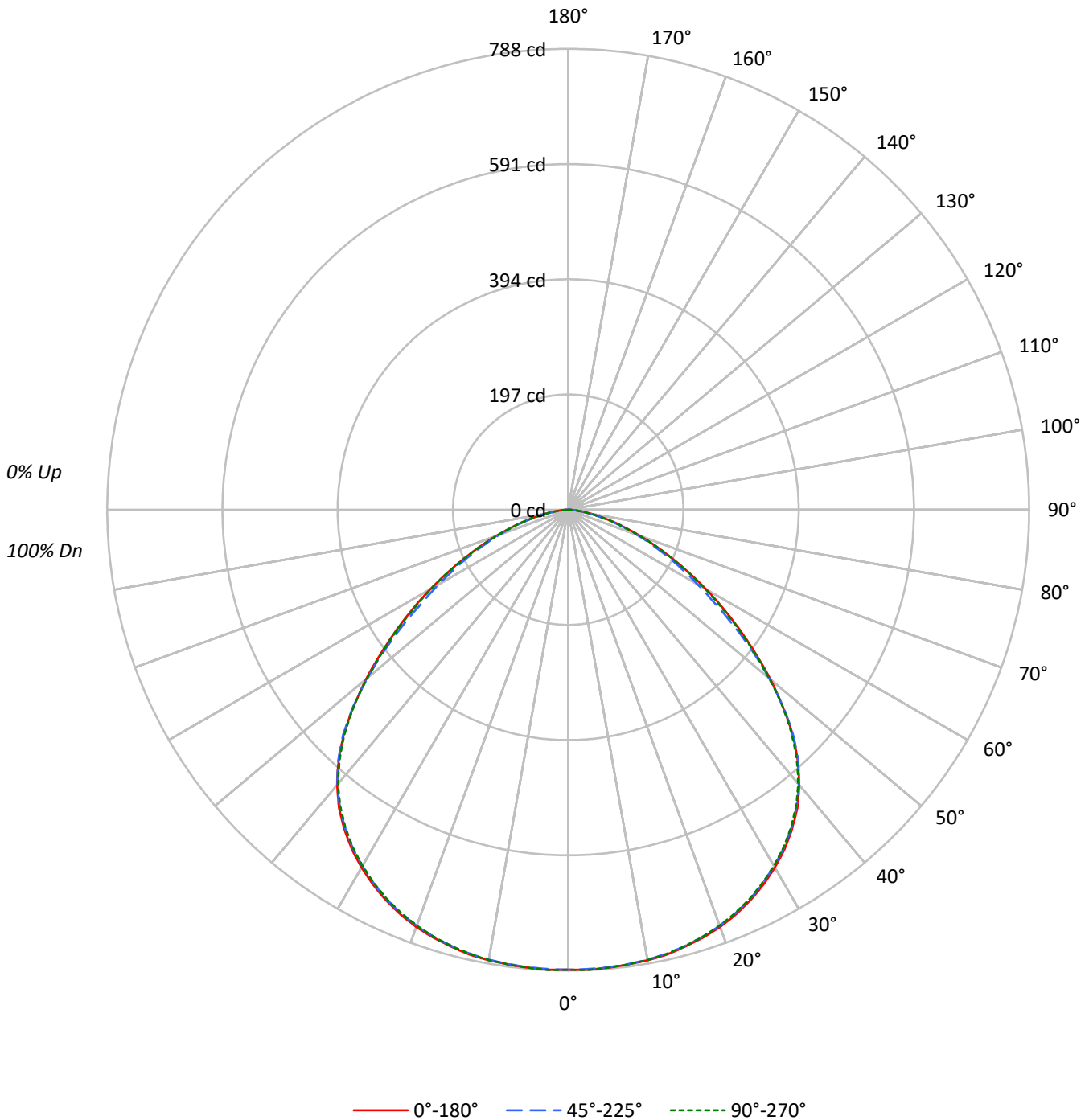
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2065.0 lumens
Efficiency: N/A
Efficacy: 122.2 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): 16.9
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°	2117	2117	2117
5°	2123	2121	2124
10°	2137	2135	2136
15°	2155	2151	2151
20°	2174	2168	2167
25°	2188	2182	2179
30°	2195	2186	2185
35°	2191	2184	2180
40°	2158	2155	2149
45°	2063	2069	2054
50°	1889	1878	1876
55°	1679	1619	1667
60°	1463	1375	1454
65°	1240	1174	1234
70°	1026	983	1016
75°	830	777	796
80°	600	581	576
85°	389	389	377



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.8	3.6
10°-20°	218.3	10.6
20°-30°	338.7	16.4
30°-40°	415.3	20.1
40°-50°	415.2	20.1
50°-60°	314.5	15.2
60°-70°	188.6	9.1
70°-80°	83.1	4.0
80°-90°	16.5	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°	631.8	30.6
0°-40°	1047.2	50.7
0°-60°	1776.8	86.0
0°-90°	2065.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2065.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	787	787	787	787	787	
5°	786	785	785	785	786	75
15°	773	773	772	772	772	219
25°	737	736	735	734	734	340
35°	667	667	665	664	664	417
45°	542	543	544	542	540	415
55°	358	350	345	350	355	321
65°	195	188	184	188	194	195
75°	80	78	75	76	77	85
85°	13	13	13	12	12	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	786.6	786.6	786.6	786.6	786.6
2.5°	787.3	786.1	786.3	786.3	787.8
5°	786.1	785.1	785.3	785.1	786.3
7.5°	784.4	783.4	783.6	783.4	784.1
10°	782.2	781.2	781.2	780.7	781.7
12.5°	779.3	778.0	777.6	777.3	778.0
15°	773.4	772.7	772.2	771.7	772.2
17.5°	767.1	765.9	765.4	764.4	765.4
20°	759.3	757.6	757.1	756.4	756.6
22.5°	749.1	747.6	746.9	745.7	746.2
25°	736.9	735.5	734.8	733.5	734.0
27.5°	722.8	721.9	720.2	719.2	719.4
30°	706.5	705.6	703.6	703.1	703.1
32.5°	688.5	687.3	685.6	685.1	684.9
35°	666.9	666.7	664.9	664.5	663.7
37.5°	643.3	642.8	640.9	640.4	639.7
40°	614.4	613.9	613.6	612.7	611.7
42.5°	580.8	581.5	582.0	580.1	578.1
45°	542.1	542.9	543.8	542.4	539.7
47.5°	496.9	499.8	498.3	499.3	496.6
50°	451.2	451.2	448.7	449.7	448.2
52.5°	403.2	399.4	396.4	398.4	400.3
55°	357.8	350.0	345.1	349.7	355.3
57.5°	314.2	305.0	296.0	303.3	310.1
60°	271.9	261.2	255.4	260.7	270.2
62.5°	231.8	224.0	218.2	222.3	230.3
65°	194.8	188.0	184.4	187.5	193.8
67.5°	161.0	156.4	152.7	155.4	160.3
70°	130.4	129.1	125.0	126.2	129.1
72.5°	102.4	102.2	98.5	99.5	101.2
75°	79.8	78.1	74.7	75.9	76.6
77.5°	56.4	57.2	54.0	54.7	54.7
80°	38.7	39.9	37.5	37.0	37.2
82.5°	24.6	24.6	24.3	24.1	23.3
85°	12.6	13.1	12.6	12.2	12.2
87.5°	4.9	4.9	4.9	4.6	4.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)