

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: P412355

Luminaire Tested: **22PD-20-PB1-L840**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412355
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-L840
Description: 2000 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

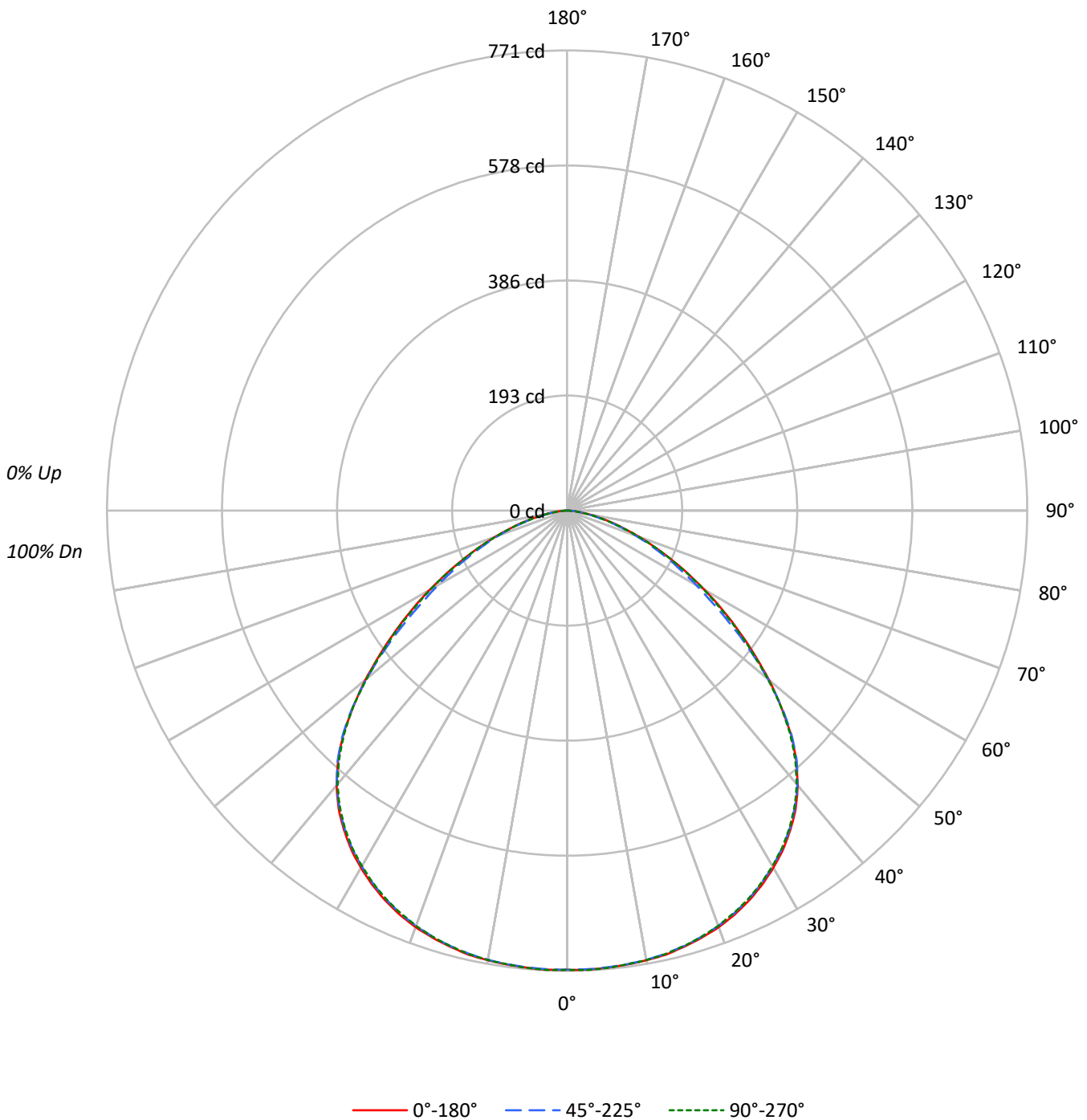
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2020.0 lumens
Efficiency: N/A
Efficacy: 119.5 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): 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

TEST NUMBER: P412355
CATALOG NUMBER: 22PD-20-PB1-L840

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°	2070	2070	2070
5°	2077	2075	2078
10°	2091	2088	2090
15°	2108	2104	2104
20°	2127	2121	2120
25°	2140	2134	2132
30°	2147	2139	2137
35°	2143	2137	2133
40°	2111	2109	2102
45°	2018	2025	2009
50°	1847	1838	1836
55°	1642	1584	1631
60°	1432	1344	1422
65°	1214	1148	1207
70°	1003	962	994
75°	811	759	779
80°	586	567	564
85°	383	383	367



TEST NUMBER: P412355

CATALOG NUMBER: 22PD-20-PB1-L840

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.2	3.6
10°-20°	213.5	10.6
20°-30°	331.3	16.4
30°-40°	406.3	20.1
40°-50°	406.1	20.1
50°-60°	307.6	15.2
60°-70°	184.5	9.1
70°-80°	81.2	4.0
80°-90°	16.1	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°	618.0	30.6
0°-40°	1024.3	50.7
0°-60°	1738.1	86.0
0°-90°	2020.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2020.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	769	769	769	769	769	
5°	769	768	768	768	769	73
15°	757	756	755	755	755	214
25°	721	720	719	718	718	332
35°	652	652	650	650	649	407
45°	530	531	532	530	528	406
55°	350	342	338	342	348	314
65°	191	184	180	183	190	191
75°	78	76	73	74	75	83
85°	12	13	12	12	12	16
90°	0	0	0	0	0	



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CATALOG NUMBER: 22PD-20-PB1-L840

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	769.4	769.4	769.4	769.4	769.4
2.5°	770.1	768.9	769.2	769.2	770.6
5°	768.9	768.0	768.2	768.0	769.2
7.5°	767.3	766.3	766.6	766.3	767.0
10°	765.1	764.2	764.2	763.7	764.7
12.5°	762.3	761.1	760.6	760.4	761.1
15°	756.6	755.9	755.4	754.9	755.4
17.5°	750.4	749.2	748.7	747.8	748.7
20°	742.8	741.1	740.6	739.9	740.2
22.5°	732.8	731.3	730.6	729.4	729.9
25°	720.9	719.5	718.7	717.6	718.0
27.5°	707.1	706.1	704.5	703.5	703.8
30°	691.1	690.2	688.3	687.8	687.8
32.5°	673.5	672.3	670.7	670.2	670.0
35°	652.4	652.1	650.5	650.0	649.3
37.5°	629.3	628.8	626.9	626.4	625.7
40°	601.0	600.5	600.3	599.3	598.4
42.5°	568.1	568.9	569.3	567.4	565.5
45°	530.3	531.0	532.0	530.5	527.9
47.5°	486.1	488.9	487.5	488.4	485.8
50°	441.3	441.3	439.0	439.9	438.5
52.5°	394.5	390.7	387.8	389.7	391.6
55°	350.0	342.4	337.6	342.1	347.6
57.5°	307.4	298.3	289.5	296.7	303.3
60°	266.0	255.5	249.8	255.0	264.3
62.5°	226.7	219.1	213.4	217.5	225.3
65°	190.6	183.9	180.3	183.4	189.6
67.5°	157.5	153.0	149.4	152.0	156.8
70°	127.5	126.3	122.3	123.5	126.3
72.5°	100.2	99.9	96.4	97.3	99.0
75°	78.0	76.4	73.0	74.2	74.9
77.5°	55.2	55.9	52.8	53.5	53.5
80°	37.8	39.0	36.6	36.2	36.4
82.5°	24.0	24.0	23.8	23.6	22.8
85°	12.4	12.8	12.4	11.9	11.9
87.5°	4.8	4.8	4.8	4.5	4.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)