

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: P412463

Luminaire Tested: **22PD-80-PB1-L840**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412463
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-80-PB1-L840
Description: 8000 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

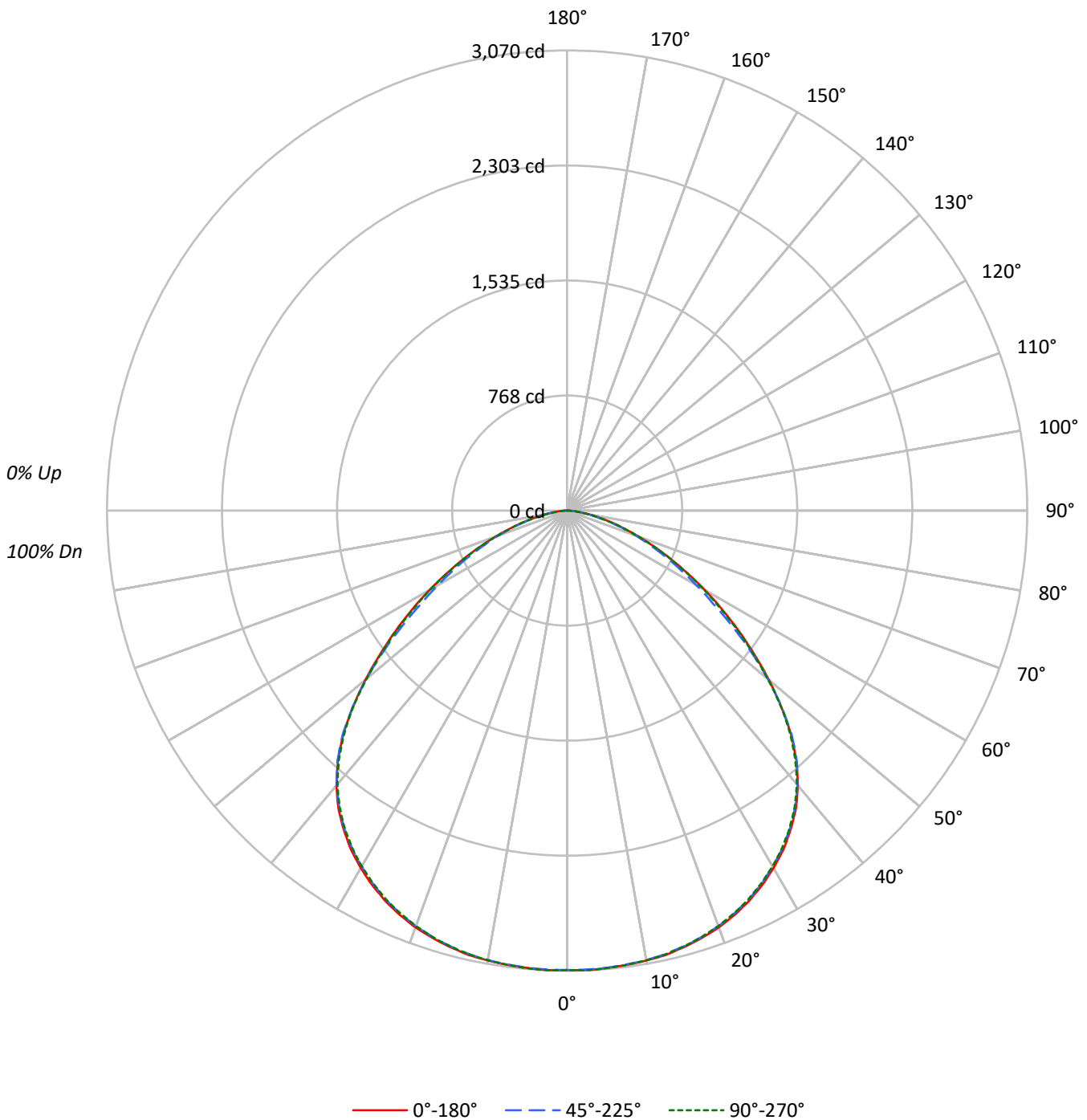
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8048.0 lumens
Efficiency: N/A
Efficacy: 110.9 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): 72.6
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: P412463
CATALOG NUMBER: 22PD-80-PB1-L840

Luminous Intensity Polar Plot





TEST NUMBER: P412463

CATALOG NUMBER: 22PD-80-PB1-L840

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°	8249	8249	8249
5°	8276	8268	8278
10°	8330	8319	8325
15°	8398	8384	8384
20°	8474	8450	8445
25°	8528	8503	8494
30°	8556	8521	8515
35°	8538	8513	8498
40°	8411	8401	8374
45°	8041	8066	8005
50°	7361	7322	7314
55°	6541	6311	6497
60°	5703	5357	5668
65°	4835	4575	4811
70°	3998	3833	3960
75°	3232	3026	3105
80°	2335	2263	2247
85°	1522	1522	1463



TEST NUMBER: P412463

CATALOG NUMBER: 22PD-80-PB1-L840

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.7	3.6
10°-20°	850.7	10.6
20°-30°	1320.0	16.4
30°-40°	1618.7	20.1
40°-50°	1618.1	20.1
50°-60°	1225.7	15.2
60°-70°	735.1	9.1
70°-80°	323.7	4.0
80°-90°	64.2	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°	2462.4	30.6
0°-40°	4081.1	50.7
0°-60°	6925.0	86.0
0°-90°	8048.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8048.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3066	3066	3066	3066	3066	
5°	3064	3060	3061	3060	3064	292
15°	3014	3011	3010	3008	3010	852
25°	2872	2866	2864	2859	2861	1324
35°	2599	2598	2592	2590	2587	1623
45°	2113	2116	2120	2114	2103	1617
55°	1394	1364	1345	1363	1385	1250
65°	759	733	718	731	756	759
75°	311	304	291	296	299	332
85°	49	51	49	47	47	65
90°	0	0	0	0	0	



TEST NUMBER: P412463

CATALOG NUMBER: 22PD-80-PB1-L840

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3065.5	3065.5	3065.5	3065.5	3065.5
2.5°	3068.3	3063.6	3064.5	3064.5	3070.2
5°	3063.6	3059.8	3060.7	3059.8	3064.5
7.5°	3056.9	3053.2	3054.1	3053.2	3056.0
10°	3048.4	3044.6	3044.6	3042.7	3046.5
12.5°	3037.0	3032.3	3030.4	3029.5	3032.3
15°	3014.3	3011.4	3009.5	3007.7	3009.5
17.5°	2989.6	2984.9	2983.0	2979.2	2983.0
20°	2959.3	2952.7	2950.8	2947.9	2948.9
22.5°	2919.5	2913.8	2911.0	2906.2	2908.1
25°	2872.1	2866.4	2863.6	2858.8	2860.7
27.5°	2817.1	2813.3	2806.7	2802.9	2803.9
30°	2753.6	2749.8	2742.2	2740.3	2740.3
32.5°	2683.5	2678.7	2672.1	2670.2	2669.3
35°	2599.1	2598.2	2591.5	2589.6	2586.8
37.5°	2507.2	2505.3	2497.7	2495.8	2492.9
40°	2394.4	2392.5	2391.5	2387.7	2383.9
42.5°	2263.6	2266.4	2268.3	2260.7	2253.1
45°	2112.8	2115.7	2119.5	2113.8	2103.4
47.5°	1936.5	1947.9	1942.2	1946.0	1935.6
50°	1758.3	1758.3	1748.9	1752.6	1747.0
52.5°	1571.6	1556.4	1545.1	1552.6	1560.2
55°	1394.3	1364.0	1345.1	1363.1	1384.9
57.5°	1224.7	1188.7	1153.6	1182.0	1208.6
60°	1059.7	1018.0	995.3	1016.1	1053.1
62.5°	903.3	873.0	850.3	866.4	897.7
65°	759.3	732.7	718.5	730.8	755.5
67.5°	627.5	609.5	595.3	605.7	624.7
70°	508.1	503.3	487.2	492.0	503.3
72.5°	399.1	398.1	383.9	387.7	394.3
75°	310.9	304.3	291.0	295.7	298.6
77.5°	219.9	222.8	210.4	213.3	213.3
80°	150.7	155.5	146.0	144.1	145.0
82.5°	95.7	95.7	94.8	93.8	91.0
85°	49.3	51.2	49.3	47.4	47.4
87.5°	19.0	19.0	19.0	18.0	17.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)