

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: P412579

Luminaire Tested: **24PD-80-PB1-L835**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412579
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-45)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24PD-80-PB1-L835
Description: 8000 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

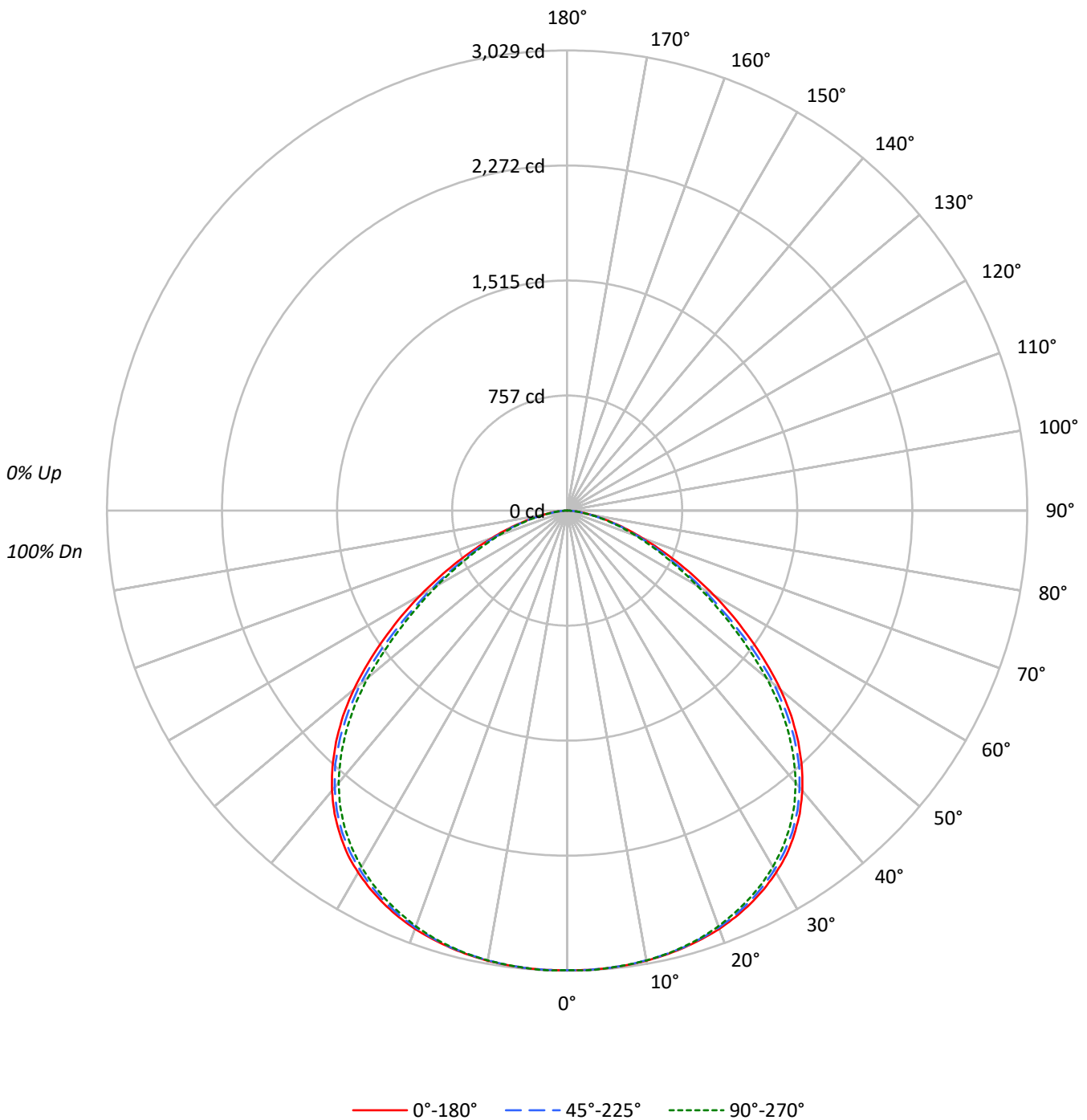
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8050.0 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.32 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 60.3
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: P412579
CATALOG NUMBER: 24PD-80-PB1-L835

Luminous Intensity Polar Plot





TEST NUMBER: P412579

CATALOG NUMBER: 24PD-80-PB1-L835

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	75	73
3	92	83	75	69	90	81	74	68	78	72	67		75	70	66		73	69	65	63
4	85	74	65	59	83	72	65	59	70	63	58		68	62	57		65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50		61	55	50		59	54	49	47
6	72	60	51	45	70	59	51	45	57	50	44		55	49	44		54	48	43	41
7	67	54	46	40	65	53	45	40	52	45	39		50	44	39		49	43	39	37
8	63	49	41	35	61	49	41	35	47	40	35		46	40	35		45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32		43	36	32		42	36	31	30
10	55	42	34	29	53	41	34	29	40	33	29		39	33	29		39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4071	4071	4071
5°	4084	4084	4084
10°	4111	4107	4108
15°	4148	4143	4139
20°	4195	4181	4170
25°	4239	4218	4194
30°	4275	4240	4208
35°	4280	4244	4191
40°	4231	4181	4111
45°	4094	4019	3915
50°	3839	3719	3583
55°	3450	3245	3111
60°	3003	2764	2658
65°	2527	2338	2236
70°	2060	1956	1877
75°	1651	1592	1526
80°	1268	1168	1137
85°	792	767	767



TEST NUMBER: P412579

CATALOG NUMBER: 24PD-80-PB1-L835

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.0	3.6
10°-20°	840.7	10.4
20°-30°	1309.7	16.3
30°-40°	1611.2	20.0
40°-50°	1618.4	20.1
50°-60°	1247.3	15.5
60°-70°	740.5	9.2
70°-80°	329.7	4.1
80°-90°	64.4	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°	2438.5	30.3
0°-40°	4049.7	50.3
0°-60°	6915.4	85.9
0°-90°	8050.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8050.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3025	3025	3025	3025	3025	
5°	3024	3024	3024	3020	3024	288
15°	2978	2978	2974	2969	2972	842
25°	2855	2854	2841	2828	2825	1317
35°	2606	2602	2584	2562	2551	1627
45°	2151	2146	2112	2077	2058	1651
55°	1471	1442	1383	1342	1326	1315
65°	794	759	734	706	702	793
75°	318	311	306	296	294	344
85°	51	49	50	47	50	68
90°	0	0	0	0	0	



TEST NUMBER: P412579

CATALOG NUMBER: 24PD-80-PB1-L835

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3025.3	3025.3	3025.3	3025.3	3025.3
2.5°	3026.9	3026.1	3026.1	3022.9	3029.3
5°	3023.7	3024.5	3023.7	3020.5	3023.7
7.5°	3017.3	3018.1	3016.5	3013.3	3016.5
10°	3009.3	3009.3	3006.0	3004.4	3006.9
12.5°	2995.6	2995.6	2992.4	2990.0	2992.4
15°	2978.0	2978.0	2974.0	2969.2	2971.6
17.5°	2956.3	2956.3	2949.9	2943.5	2945.1
20°	2929.9	2929.1	2920.3	2911.4	2912.2
22.5°	2896.2	2895.4	2884.2	2873.7	2870.5
25°	2855.3	2854.5	2840.9	2828.0	2824.8
27.5°	2808.0	2804.8	2789.6	2775.1	2771.9
30°	2751.9	2749.5	2729.4	2715.0	2708.6
32.5°	2686.9	2680.5	2662.1	2644.4	2635.6
35°	2605.9	2601.9	2583.5	2561.8	2551.4
37.5°	2514.5	2510.5	2490.5	2466.4	2454.4
40°	2408.7	2405.5	2380.6	2355.8	2340.5
42.5°	2286.8	2284.4	2257.9	2223.5	2207.4
45°	2151.3	2145.7	2112.0	2076.7	2057.5
47.5°	2000.6	1990.9	1950.0	1916.4	1895.5
50°	1833.8	1820.9	1776.8	1733.5	1711.9
52.5°	1653.4	1630.9	1585.2	1535.5	1514.7
55°	1470.6	1442.5	1383.2	1341.5	1326.2
57.5°	1291.7	1250.8	1194.7	1165.1	1149.8
60°	1116.1	1071.2	1027.1	998.3	987.9
62.5°	948.6	910.9	873.2	844.3	837.9
65°	793.8	759.3	734.5	706.4	702.4
67.5°	649.5	633.4	611.0	586.9	583.7
70°	523.6	517.2	497.1	482.7	477.1
72.5°	417.8	411.3	396.9	386.5	384.9
75°	317.5	311.1	306.3	295.9	293.5
77.5°	226.1	226.9	222.9	217.3	218.9
80°	163.6	154.0	150.7	147.5	146.7
82.5°	100.2	94.6	92.2	91.4	93.0
85°	51.3	48.9	49.7	47.3	49.7
87.5°	17.6	17.6	18.4	17.6	19.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)