

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: P413166

Luminaire Tested: **24PD-10-PC3-L850**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413166
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-46)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24PD-10-PC3-L850
Description: 10000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

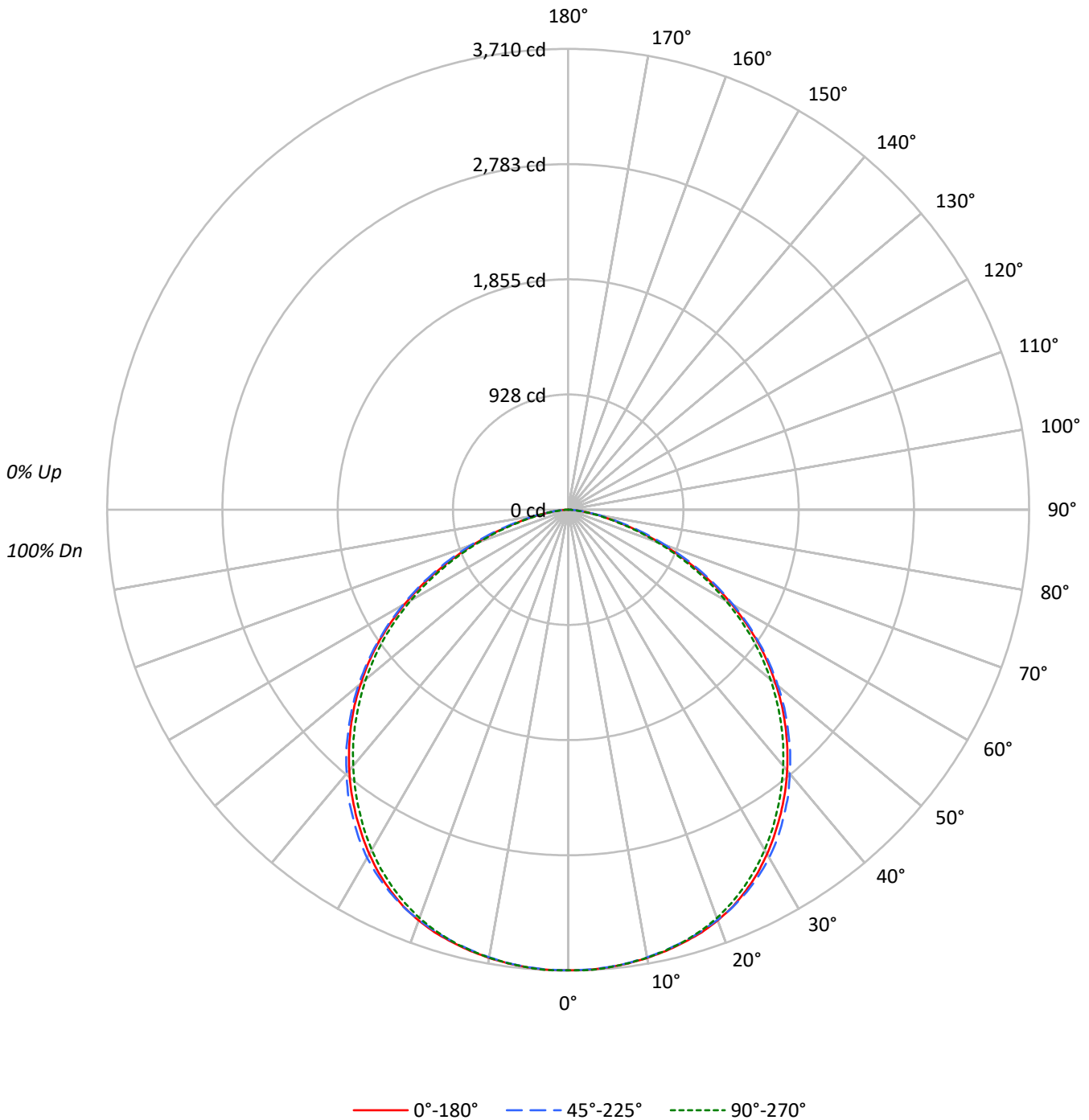
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10136.0 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.38
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 77.4
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

TEST NUMBER: P413166
CATALOG NUMBER: 24PD-10-PC3-L850

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	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	47	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4989	4989	4989
5°	4996	4993	4997
10°	5006	4999	5003
15°	5022	5012	5014
20°	5039	5032	5010
25°	5025	5043	4973
30°	4974	5027	4912
35°	4902	4964	4827
40°	4816	4873	4729
45°	4707	4758	4609
50°	4560	4612	4449
55°	4373	4412	4243
60°	4083	4130	3942
65°	3679	3771	3535
70°	3124	3261	2998
75°	2419	2595	2307
80°	1799	1878	1632
85°	1110	1189	1031



TEST NUMBER: P413166

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.8	3.5
10°-20°	1016.9	10.0
20°-30°	1557.4	15.4
30°-40°	1873.5	18.5
40°-50°	1910.5	18.8
50°-60°	1656.3	16.3
60°-70°	1148.3	11.3
70°-80°	524.5	5.2
80°-90°	96.9	1.0
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°	2926.1	28.9
0°-40°	4799.6	47.4
0°-60°	8366.4	82.5
0°-90°	10136.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10136.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3708	3708	3708	3708	3708	
5°	3699	3699	3697	3695	3700	352
15°	3606	3604	3598	3595	3599	1019
25°	3385	3394	3397	3367	3350	1558
35°	2984	3016	3022	2983	2939	1866
45°	2474	2504	2500	2466	2422	1906
55°	1864	1876	1881	1835	1809	1661
65°	1156	1180	1184	1144	1110	1143
75°	465	491	499	483	444	509
85°	72	74	77	73	67	97
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3708.3	3708.3	3708.3	3708.3	3708.3
2.5°	3708.3	3708.3	3706.2	3704.2	3710.3
5°	3699.0	3699.0	3697.0	3694.9	3700.0
7.5°	3684.6	3683.6	3681.6	3679.5	3682.6
10°	3664.1	3663.1	3659.0	3657.9	3662.0
12.5°	3638.4	3637.4	3631.2	3631.2	3634.3
15°	3605.5	3604.5	3598.4	3595.3	3599.4
17.5°	3568.6	3567.5	3560.3	3552.1	3554.2
20°	3519.3	3519.3	3514.1	3501.8	3498.7
22.5°	3459.7	3462.8	3462.8	3439.1	3429.9
25°	3384.7	3393.9	3397.0	3367.2	3349.8
27.5°	3299.4	3313.8	3322.0	3284.0	3261.4
30°	3201.8	3225.5	3235.7	3194.7	3161.8
32.5°	3095.0	3124.8	3137.1	3097.1	3055.0
35°	2984.1	3015.9	3022.1	2983.0	2938.9
37.5°	2865.9	2898.8	2907.0	2872.1	2817.7
40°	2741.7	2774.5	2774.5	2745.8	2692.3
42.5°	2610.2	2645.1	2644.1	2609.1	2560.9
45°	2473.5	2504.4	2500.3	2466.4	2422.2
47.5°	2332.8	2352.3	2357.5	2317.4	2275.3
50°	2178.7	2198.3	2203.4	2158.2	2125.3
52.5°	2026.7	2039.0	2046.2	1993.8	1970.2
55°	1864.4	1875.7	1880.8	1834.6	1808.9
57.5°	1692.9	1707.2	1713.4	1667.2	1638.4
60°	1517.2	1532.6	1534.7	1491.5	1464.8
62.5°	1338.5	1359.0	1363.1	1320.0	1288.1
65°	1155.6	1180.3	1184.4	1144.3	1110.4
67.5°	972.8	1005.6	1006.7	973.8	933.7
70°	794.0	830.0	829.0	801.2	762.2
72.5°	623.5	656.4	663.6	637.9	599.9
75°	465.3	491.0	499.2	482.8	443.8
77.5°	330.8	354.4	361.6	346.2	317.4
80°	232.2	233.2	242.4	230.1	210.6
82.5°	143.8	141.8	144.8	139.7	128.4
85°	71.9	74.0	77.0	72.9	66.8
87.5°	24.7	25.7	27.7	27.7	24.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)