

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: P413165

Luminaire Tested: **24PD-10-PC3-L840**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413165
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-L840
Description: 10000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

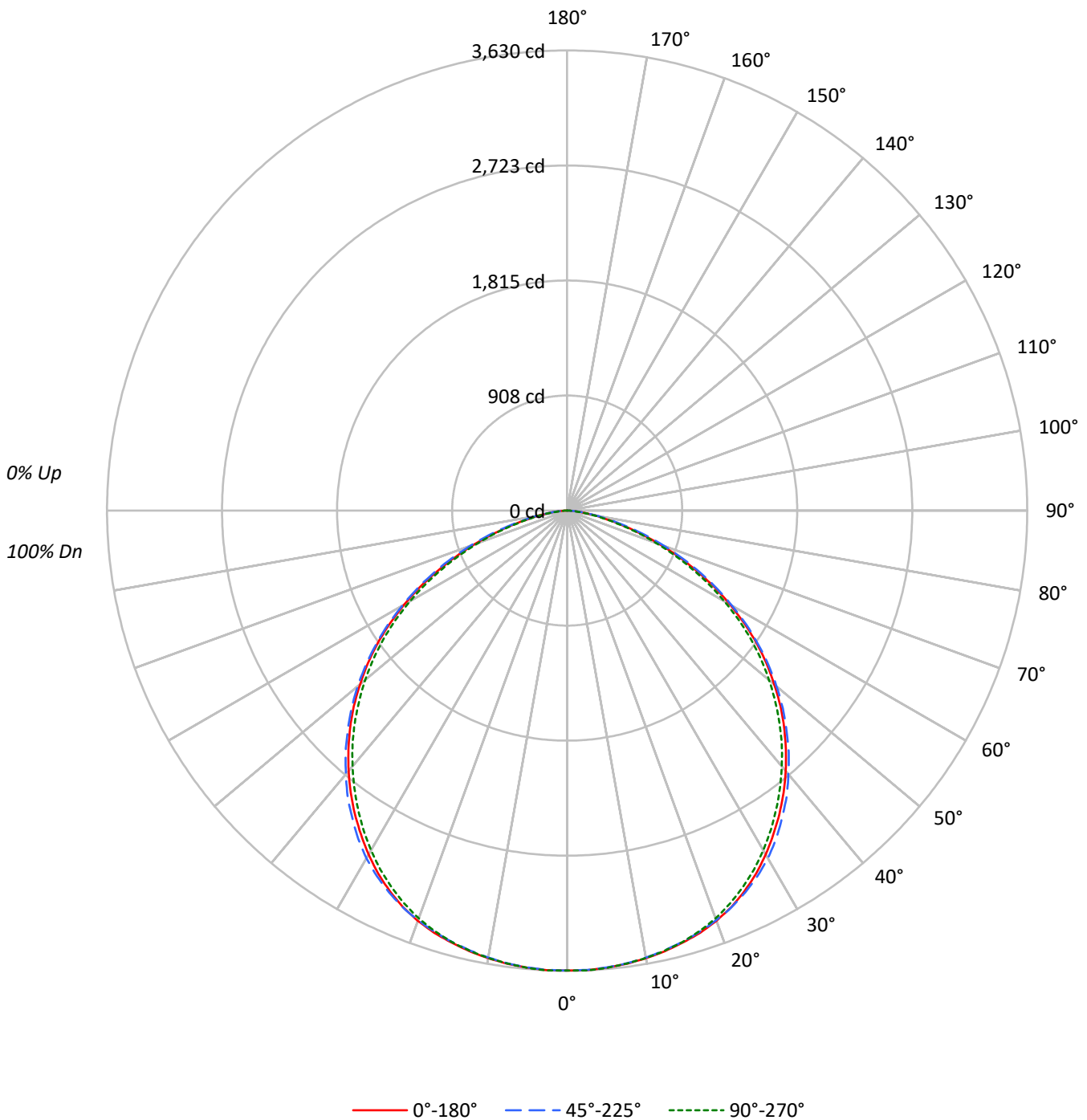
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9918.0 lumens
Efficiency: N/A
Efficacy: 128.1 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

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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	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°	4882	4882	4882
5°	4889	4886	4890
10°	4898	4892	4896
15°	4914	4905	4906
20°	4931	4923	4902
25°	4917	4935	4866
30°	4868	4919	4807
35°	4796	4857	4723
40°	4712	4768	4627
45°	4605	4655	4510
50°	4463	4513	4353
55°	4279	4317	4152
60°	3995	4041	3857
65°	3600	3690	3459
70°	3057	3191	2934
75°	2367	2540	2257
80°	1760	1838	1597
85°	1087	1164	1008



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.2	3.5
10°-20°	995.1	10.0
20°-30°	1523.9	15.4
30°-40°	1833.3	18.5
40°-50°	1869.4	18.8
50°-60°	1620.7	16.3
60°-70°	1123.6	11.3
70°-80°	513.2	5.2
80°-90°	94.8	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°	2863.2	28.9
0°-40°	4696.4	47.4
0°-60°	8186.5	82.5
0°-90°	9918.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9918.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3628	3628	3628	3628	3628	
5°	3620	3620	3618	3615	3620	344
15°	3528	3527	3521	3518	3522	997
25°	3312	3321	3324	3295	3278	1525
35°	2920	2951	2957	2919	2876	1826
45°	2420	2450	2446	2413	2370	1865
55°	1824	1835	1840	1795	1770	1626
65°	1131	1155	1159	1120	1086	1118
75°	455	480	488	472	434	498
85°	70	72	75	71	65	95
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3628.5	3628.5	3628.5	3628.5	3628.5
2.5°	3628.5	3628.5	3626.5	3624.5	3630.5
5°	3619.5	3619.5	3617.5	3615.4	3620.5
7.5°	3605.4	3604.4	3602.4	3600.4	3603.4
10°	3585.3	3584.3	3580.3	3579.3	3583.3
12.5°	3560.2	3559.2	3553.1	3553.1	3556.1
15°	3528.0	3527.0	3521.0	3517.9	3522.0
17.5°	3491.8	3490.8	3483.8	3475.7	3477.7
20°	3443.6	3443.6	3438.5	3426.5	3423.5
22.5°	3385.3	3388.3	3388.3	3365.2	3356.1
25°	3311.9	3320.9	3324.0	3294.8	3277.7
27.5°	3228.5	3242.5	3250.6	3213.4	3191.3
30°	3133.0	3156.1	3166.2	3125.9	3093.8
32.5°	3028.4	3057.6	3069.7	3030.5	2989.2
35°	2919.9	2951.1	2957.1	2918.9	2875.7
37.5°	2804.3	2836.5	2844.5	2810.3	2757.1
40°	2682.7	2714.8	2714.8	2686.7	2634.4
42.5°	2554.0	2588.2	2587.2	2553.0	2505.8
45°	2420.3	2450.5	2446.5	2413.3	2370.1
47.5°	2282.6	2301.7	2306.8	2267.6	2226.4
50°	2131.9	2151.0	2156.0	2111.8	2079.6
52.5°	1983.1	1995.2	2002.2	1951.0	1927.8
55°	1824.3	1835.4	1840.4	1795.2	1770.0
57.5°	1656.5	1670.5	1676.6	1631.3	1603.2
60°	1484.6	1499.7	1501.7	1459.4	1433.3
62.5°	1309.7	1329.8	1333.8	1291.6	1260.4
65°	1130.8	1154.9	1158.9	1119.7	1086.5
67.5°	951.9	984.0	985.0	952.9	913.7
70°	777.0	812.1	811.1	784.0	745.8
72.5°	610.1	642.3	649.3	624.2	587.0
75°	455.3	480.5	488.5	472.4	434.2
77.5°	323.7	346.8	353.8	338.7	310.6
80°	227.2	228.2	237.2	225.1	206.1
82.5°	140.7	138.7	141.7	136.7	125.6
85°	70.4	72.4	75.4	71.4	65.3
87.5°	24.1	25.1	27.1	27.1	24.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)