

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: P412823

Luminaire Tested: **24PD-100-PP3-L840**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412823
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24PD-100-PP3-L840
Description: 10000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

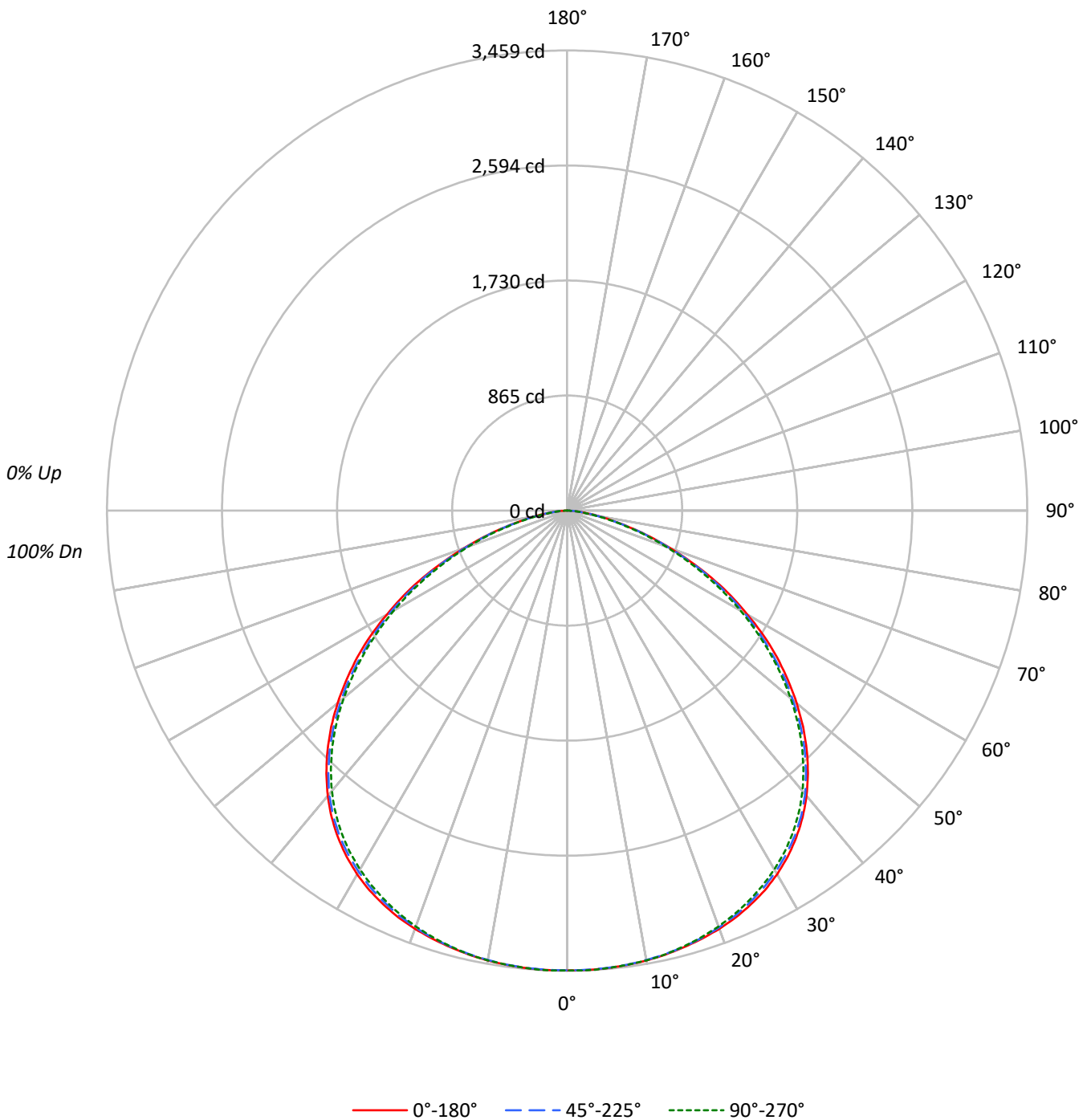
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10057.0 lumens
Efficiency: N/A
Efficacy: 129.9 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.33 / 1.43
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: P412823
CATALOG NUMBER: 24PD-100-PP3-L840

Luminous Intensity Polar Plot





TEST NUMBER: P412823

CATALOG NUMBER: 24PD-100-PP3-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	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71					71			
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	63	60					60			
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	52					52			
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45					45			
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39					39			
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34					34			
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31					31			
9	57	44	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27					27			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4650	4650	4650
5°	4663	4661	4664
10°	4692	4686	4691
15°	4733	4726	4724
20°	4791	4775	4763
25°	4851	4825	4803
30°	4905	4870	4839
35°	4931	4901	4857
40°	4918	4888	4833
45°	4848	4800	4747
50°	4715	4639	4590
55°	4519	4411	4354
60°	4211	4138	4054
65°	3817	3741	3632
70°	3258	3199	3096
75°	2544	2518	2398
80°	1877	1799	1698
85°	1133	1133	1054



TEST NUMBER: P412823

CATALOG NUMBER: 24PD-100-PP3-L840

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.8	3.3
10°-20°	959.5	9.5
20°-30°	1499.8	14.9
30°-40°	1864.0	18.5
40°-50°	1942.1	19.3
50°-60°	1685.2	16.8
60°-70°	1158.8	11.5
70°-80°	522.9	5.2
80°-90°	95.8	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°	2788.2	27.7
0°-40°	4652.1	46.3
0°-60°	8279.5	82.3
0°-90°	10057.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10057.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3456	3456	3456	3456	3456	
5°	3452	3453	3451	3448	3453	329
15°	3398	3398	3393	3390	3391	961
25°	3267	3266	3250	3237	3235	1507
35°	3002	3002	2984	2967	2957	1876
45°	2548	2549	2523	2504	2494	1961
55°	1927	1916	1880	1858	1856	1717
65°	1199	1194	1175	1147	1141	1183
75°	489	492	484	471	461	533
85°	73	72	73	72	68	99
90°	0	0	0	0	0	



TEST NUMBER: P412823

CATALOG NUMBER: 24PD-100-PP3-L840

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3456.3	3456.3	3456.3	3456.3	3456.3
2.5°	3457.3	3457.3	3455.3	3452.3	3459.3
5°	3452.3	3453.3	3451.3	3448.3	3453.3
7.5°	3445.2	3446.2	3443.2	3440.2	3444.2
10°	3434.2	3433.2	3430.2	3428.2	3433.2
12.5°	3418.1	3417.1	3414.1	3412.1	3416.1
15°	3398.0	3398.0	3393.0	3390.0	3391.0
17.5°	3373.9	3373.9	3366.9	3359.8	3361.8
20°	3345.7	3344.7	3334.7	3327.7	3326.6
22.5°	3310.6	3310.6	3296.5	3287.5	3284.4
25°	3267.4	3266.3	3250.3	3237.2	3235.2
27.5°	3218.1	3216.1	3197.0	3183.9	3178.9
30°	3156.8	3154.8	3134.7	3120.6	3114.6
32.5°	3084.4	3087.5	3064.3	3048.3	3042.2
35°	3002.0	3002.0	2983.9	2966.8	2956.8
37.5°	2907.6	2907.6	2890.5	2873.4	2861.3
40°	2800.0	2801.0	2782.9	2761.8	2751.8
42.5°	2679.4	2681.4	2657.3	2640.2	2629.2
45°	2547.8	2548.8	2522.6	2503.5	2494.5
47.5°	2405.0	2403.0	2373.9	2357.8	2348.8
50°	2252.3	2248.3	2216.1	2201.0	2193.0
52.5°	2092.5	2084.4	2056.3	2034.2	2027.1
55°	1926.6	1915.6	1880.4	1858.3	1856.3
57.5°	1753.8	1740.7	1711.6	1690.5	1682.4
60°	1564.8	1561.8	1537.7	1512.6	1506.5
62.5°	1387.9	1378.9	1357.8	1327.6	1324.6
65°	1199.0	1194.0	1174.9	1146.7	1140.7
67.5°	1004.0	1009.1	993.0	967.8	959.8
70°	828.1	831.2	813.1	790.0	786.9
72.5°	651.3	656.3	641.2	626.1	623.1
75°	489.4	491.5	484.4	471.4	461.3
77.5°	347.7	354.8	346.7	337.7	329.6
80°	242.2	231.2	232.2	228.1	219.1
82.5°	145.7	140.7	139.7	135.7	131.7
85°	73.4	72.4	73.4	72.4	68.3
87.5°	24.1	26.1	27.1	27.1	25.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)