

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: P412929

Luminaire Tested: **24PD-85-PP3-L830**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412929
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-85-PP3-L830
Description: 8500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

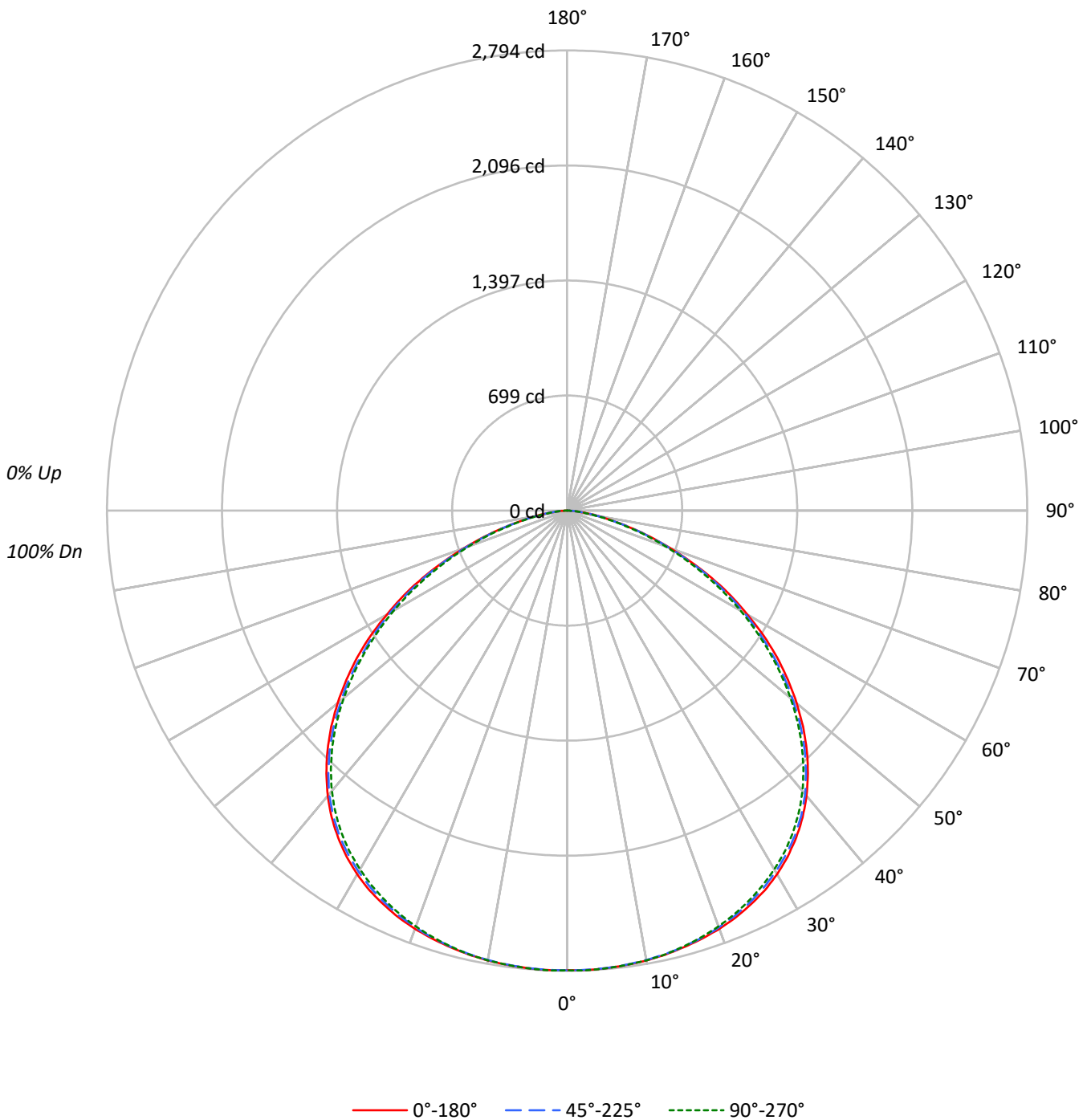
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8123.0 lumens
Efficiency: N/A
Efficacy: 125.9 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): 64.5
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	98	95	93		95	92	90		91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80	77	74	71
3	91	81	73	66	89	79	72	66	76	70	65		73	68	64		71	66	63	60
4	83	72	63	56	81	70	62	56	68	61	55		65	59	54		63	58	54	52
5	77	64	55	49	75	63	54	48	61	53	48		59	52	47		57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42		53	46	41		52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37		48	42	37		47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33		44	38	33		43	37	32	31
9	57	44	35	30	55	43	35	30	42	35	30		41	34	29		40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27		38	31	27		37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3756	3756	3756
5°	3766	3765	3767
10°	3790	3785	3789
15°	3823	3817	3815
20°	3869	3857	3847
25°	3918	3897	3879
30°	3961	3934	3908
35°	3983	3959	3923
40°	3972	3948	3904
45°	3916	3877	3834
50°	3808	3747	3708
55°	3650	3563	3517
60°	3401	3342	3274
65°	3083	3021	2933
70°	2631	2583	2500
75°	2055	2034	1937
80°	1516	1453	1371
85°	915	915	852



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.6	3.3
10°-20°	775.0	9.5
20°-30°	1211.4	14.9
30°-40°	1505.5	18.5
40°-50°	1568.6	19.3
50°-60°	1361.2	16.8
60°-70°	935.9	11.5
70°-80°	422.4	5.2
80°-90°	77.4	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°	2252.0	27.7
0°-40°	3757.5	46.3
0°-60°	6687.3	82.3
0°-90°	8123.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8123.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2792	2792	2792	2792	2792	
5°	2788	2789	2788	2785	2789	266
15°	2745	2745	2740	2738	2739	776
25°	2639	2638	2625	2615	2613	1217
35°	2425	2425	2410	2396	2388	1515
45°	2058	2059	2038	2022	2015	1584
55°	1556	1547	1519	1501	1499	1387
65°	968	964	949	926	921	956
75°	395	397	391	381	373	430
85°	59	58	59	58	55	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2791.6	2791.6	2791.6	2791.6	2791.6
2.5°	2792.5	2792.5	2790.8	2788.4	2794.1
5°	2788.4	2789.2	2787.6	2785.1	2789.2
7.5°	2782.7	2783.5	2781.1	2778.7	2781.9
10°	2773.8	2773.0	2770.5	2768.9	2773.0
12.5°	2760.8	2760.0	2757.5	2755.9	2759.2
15°	2744.6	2744.6	2740.5	2738.1	2738.9
17.5°	2725.1	2725.1	2719.4	2713.7	2715.3
20°	2702.3	2701.5	2693.4	2687.7	2686.9
22.5°	2673.9	2673.9	2662.6	2655.3	2652.8
25°	2639.0	2638.2	2625.2	2614.7	2613.1
27.5°	2599.3	2597.6	2582.2	2571.7	2567.6
30°	2549.7	2548.1	2531.9	2520.5	2515.6
32.5°	2491.3	2493.7	2475.1	2462.1	2457.2
35°	2424.7	2424.7	2410.1	2396.3	2388.2
37.5°	2348.4	2348.4	2334.6	2320.8	2311.1
40°	2261.6	2262.4	2247.8	2230.7	2222.6
42.5°	2164.1	2165.8	2146.3	2132.5	2123.6
45°	2057.8	2058.6	2037.5	2022.1	2014.8
47.5°	1942.5	1940.9	1917.4	1904.4	1897.1
50°	1819.2	1815.9	1789.9	1777.8	1771.3
52.5°	1690.1	1683.6	1660.9	1643.0	1637.3
55°	1556.1	1547.2	1518.8	1500.9	1499.3
57.5°	1416.5	1406.0	1382.4	1365.4	1358.9
60°	1263.9	1261.5	1242.0	1221.7	1216.8
62.5°	1121.0	1113.7	1096.7	1072.3	1069.9
65°	968.4	964.4	948.9	926.2	921.3
67.5°	810.9	815.0	802.0	781.7	775.2
70°	668.9	671.3	656.7	638.0	635.6
72.5°	526.0	530.1	517.9	505.7	503.3
75°	395.3	397.0	391.3	380.7	372.6
77.5°	280.9	286.6	280.1	272.8	266.3
80°	195.6	186.7	187.5	184.3	177.0
82.5°	117.7	113.6	112.8	109.6	106.3
85°	59.3	58.4	59.3	58.4	55.2
87.5°	19.5	21.1	21.9	21.9	20.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)