

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: P412931

Luminaire Tested: **24PD-85-PP3-L840**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412931
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-L840
Description: 8500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

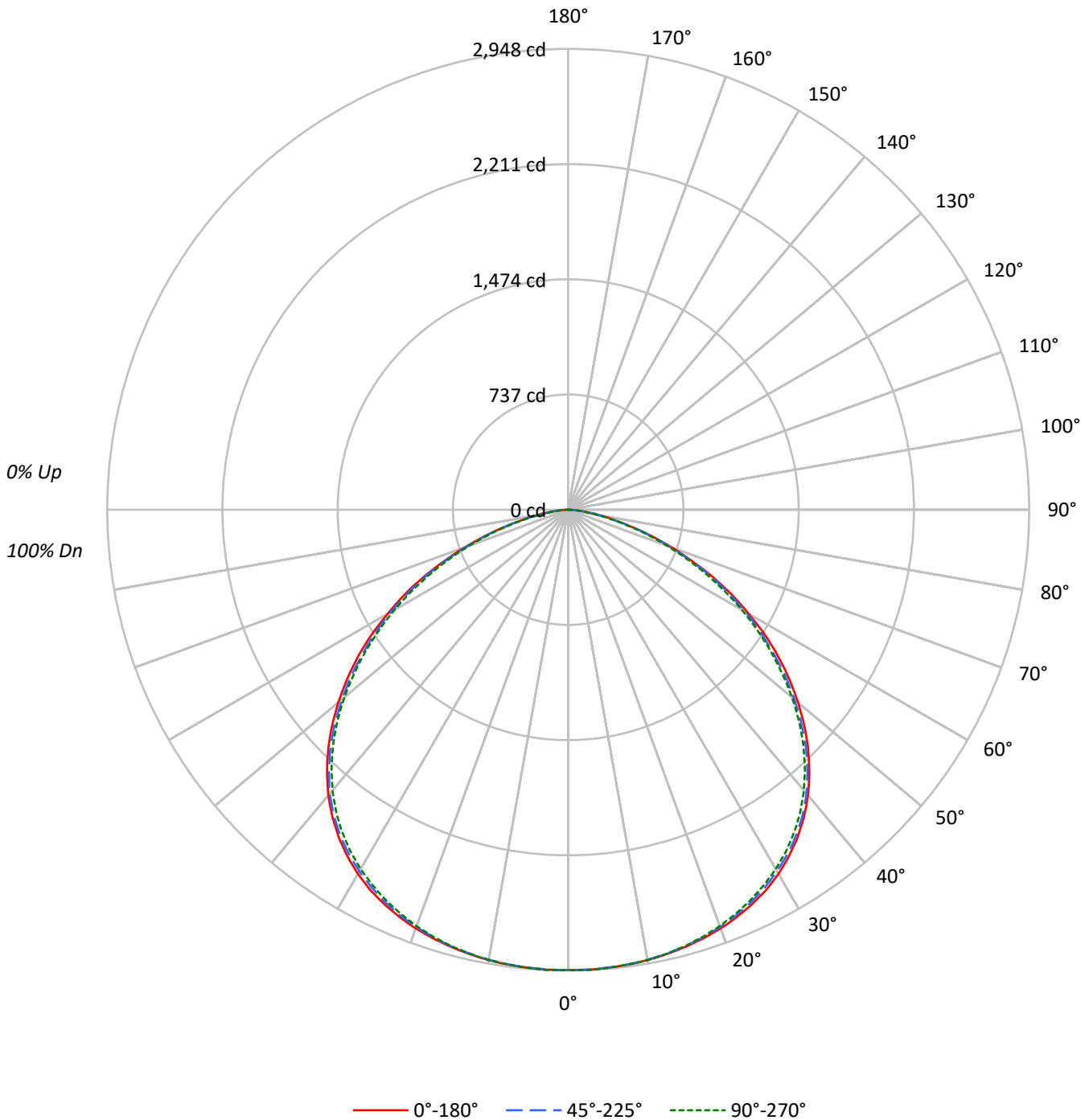
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8569.0 lumens
Efficiency: N/A
Efficacy: 132.9 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°	3962	3962	3962
5°	3973	3972	3974
10°	3998	3993	3997
15°	4033	4027	4025
20°	4082	4068	4058
25°	4133	4111	4092
30°	4179	4150	4123
35°	4201	4176	4138
40°	4190	4165	4118
45°	4131	4090	4044
50°	4017	3952	3911
55°	3851	3758	3710
60°	3588	3526	3454
65°	3252	3187	3094
70°	2776	2725	2638
75°	2168	2146	2044
80°	1599	1533	1447
85°	965	965	898



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.2	3.3
10°-20°	817.6	9.5
20°-30°	1277.9	14.9
30°-40°	1588.2	18.5
40°-50°	1654.8	19.3
50°-60°	1435.9	16.8
60°-70°	987.3	11.5
70°-80°	445.6	5.2
80°-90°	81.7	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°	2375.6	27.7
0°-40°	3963.8	46.3
0°-60°	7054.5	82.3
0°-90°	8569.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8569.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2945	2945	2945	2945	2945	
5°	2942	2942	2941	2938	2942	280
15°	2895	2895	2891	2888	2889	819
25°	2784	2783	2769	2758	2756	1284
35°	2558	2558	2542	2528	2519	1598
45°	2171	2172	2149	2133	2125	1671
55°	1642	1632	1602	1583	1582	1463
65°	1022	1017	1001	977	972	1008
75°	417	419	413	402	393	454
85°	62	62	62	62	58	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2944.9	2944.9	2944.9	2944.9	2944.9
2.5°	2945.8	2945.8	2944.1	2941.5	2947.5
5°	2941.5	2942.3	2940.6	2938.1	2942.3
7.5°	2935.5	2936.4	2933.8	2931.2	2934.6
10°	2926.1	2925.2	2922.7	2920.9	2925.2
12.5°	2912.4	2911.5	2908.9	2907.2	2910.7
15°	2895.2	2895.2	2891.0	2888.4	2889.3
17.5°	2874.7	2874.7	2868.7	2862.7	2864.4
20°	2850.7	2849.9	2841.3	2835.3	2834.4
22.5°	2820.7	2820.7	2808.8	2801.1	2798.5
25°	2783.9	2783.1	2769.4	2758.2	2756.5
27.5°	2742.0	2740.3	2724.0	2712.9	2708.6
30°	2689.7	2688.0	2670.9	2658.9	2653.8
32.5°	2628.1	2630.6	2610.9	2597.2	2592.1
35°	2557.9	2557.9	2542.4	2527.9	2519.3
37.5°	2477.4	2477.4	2462.8	2448.2	2438.0
40°	2385.7	2386.6	2371.2	2353.2	2344.6
42.5°	2283.0	2284.7	2264.1	2249.6	2240.2
45°	2170.8	2171.7	2149.4	2133.1	2125.4
47.5°	2049.2	2047.5	2022.6	2008.9	2001.2
50°	1919.0	1915.6	1888.2	1875.4	1868.5
52.5°	1782.9	1776.0	1752.0	1733.2	1727.2
55°	1641.6	1632.2	1602.2	1583.4	1581.6
57.5°	1494.3	1483.2	1458.3	1440.3	1433.5
60°	1333.3	1330.7	1310.2	1288.8	1283.6
62.5°	1182.6	1174.9	1156.9	1131.2	1128.6
65°	1021.6	1017.3	1001.0	977.1	971.9
67.5°	855.5	859.8	846.1	824.6	817.8
70°	705.6	708.2	692.8	673.1	670.5
72.5°	554.9	559.2	546.3	533.5	530.9
75°	417.0	418.7	412.8	401.6	393.1
77.5°	296.3	302.3	295.4	287.7	280.9
80°	206.4	197.0	197.8	194.4	186.7
82.5°	124.2	119.9	119.0	115.6	112.2
85°	62.5	61.7	62.5	61.7	58.2
87.5°	20.6	22.3	23.1	23.1	21.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)