

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: P219063

Luminaire Tested: **24GR-LD5-90-F1-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219063
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35585)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-90-F1-UNV-L940-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH F1 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7951.6 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.26
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

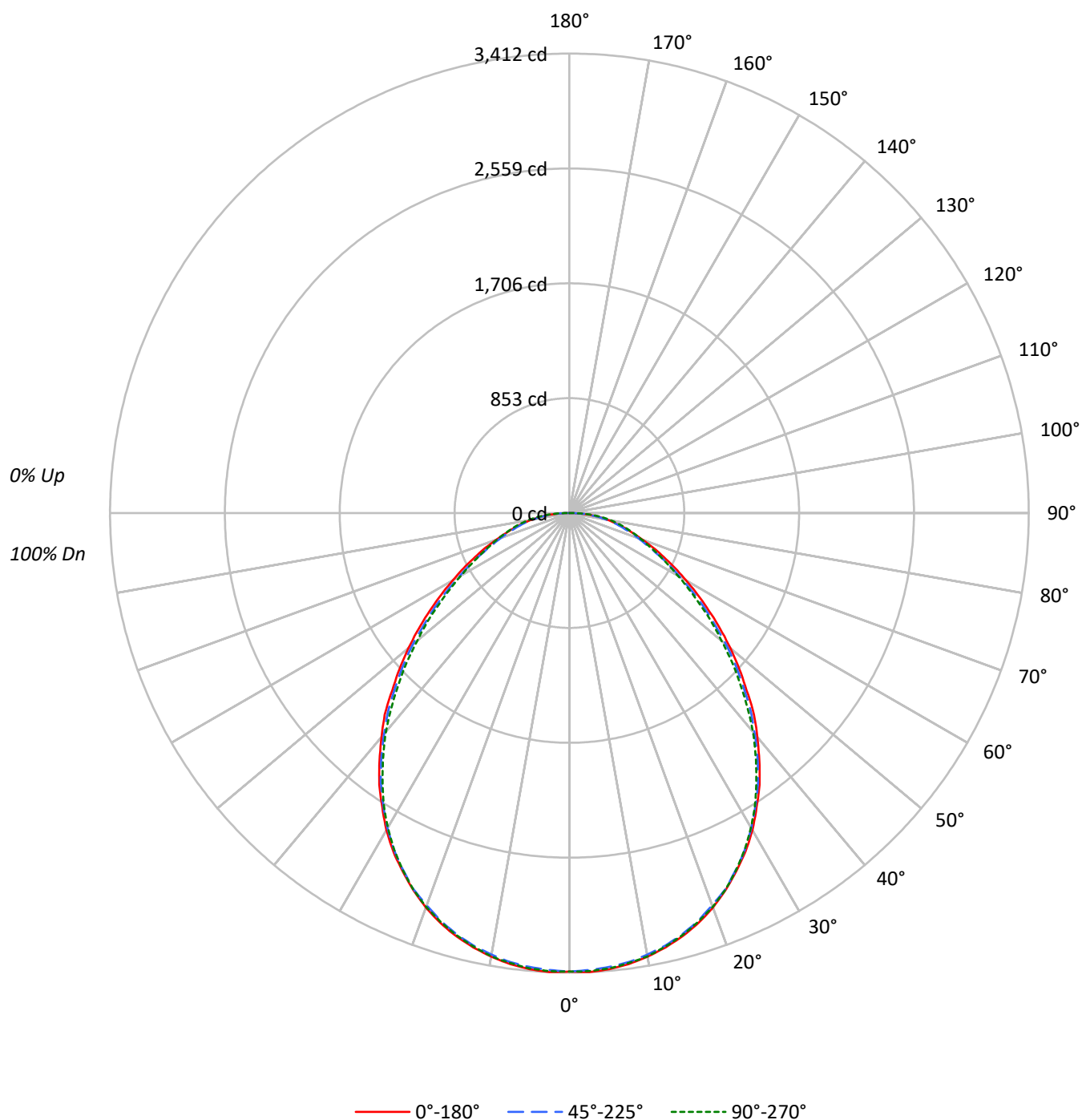
Input Watts (W): 69.117
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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	94	92	90	91	89	87	85		
2	100	92	86	80	98	90	85	80	87	82	78	84	80	76	81	77	74	72		
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62		
4	85	73	65	58	82	72	64	58	69	63	57	67	61	57	65	60	56	54		
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47		
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42		
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37		
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33		
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30		
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5215	5215	5215
5°	5227	5202	5217
10°	5202	5179	5198
15°	5157	5134	5146
20°	5082	5052	5072
25°	4958	4941	4946
30°	4807	4779	4770
35°	4603	4566	4525
40°	4339	4282	4241
45°	4031	3959	3885
50°	3716	3619	3511
55°	3378	3261	3159
60°	3060	2899	2847
65°	2799	2613	2630
70°	2575	2427	2542
75°	2503	2372	2590
80°	2508	2444	2757
85°	2759	2608	3038



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.6	4.0
10°-20°	912.9	11.5
20°-30°	1345.2	16.9
30°-40°	1521.3	19.1
40°-50°	1411.1	17.7
50°-60°	1096.3	13.8
60°-70°	735.1	9.2
70°-80°	440.6	5.5
80°-90°	167.6	2.1
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°	2579.7	32.4
0°-40°	4101.0	51.6
0°-60°	6608.3	83.1
0°-90°	7951.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7951.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3405	3405	3405	3405	3405	
5°	3400	3390	3384	3381	3394	323
15°	3252	3239	3238	3232	3245	916
25°	2934	2930	2924	2919	2926	1350
35°	2462	2452	2442	2427	2420	1534
45°	1861	1854	1828	1800	1794	1439
55°	1265	1250	1221	1190	1183	1136
65°	772	748	721	718	726	771
75°	423	408	401	420	438	447
85°	157	147	148	174	173	165
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3404.6	3404.6	3404.6	3404.6	3404.6
2.5°	3411.9	3400.9	3396.0	3393.5	3404.6
5°	3399.7	3389.9	3383.7	3381.3	3393.5
7.5°	3377.6	3366.6	3362.9	3358.0	3370.3
10°	3344.5	3334.6	3329.7	3326.0	3342.0
12.5°	3302.7	3294.2	3289.3	3286.8	3296.6
15°	3252.5	3239.0	3237.8	3231.7	3245.1
17.5°	3190.0	3177.7	3175.3	3172.8	3181.4
20°	3117.7	3105.4	3099.3	3098.1	3111.6
22.5°	3030.6	3022.0	3024.4	3017.1	3026.9
25°	2933.8	2930.1	2923.9	2919.0	2926.4
27.5°	2833.3	2821.0	2821.0	2811.2	2818.6
30°	2718.0	2709.4	2702.0	2692.2	2697.1
32.5°	2588.0	2584.4	2573.3	2563.5	2566.0
35°	2461.8	2451.9	2442.1	2427.4	2420.0
37.5°	2317.1	2307.3	2295.0	2274.2	2271.8
40°	2170.0	2161.4	2141.7	2119.7	2120.9
42.5°	2030.2	2016.7	1992.2	1962.8	1956.7
45°	1861.0	1853.6	1827.9	1799.7	1793.6
47.5°	1710.2	1705.3	1673.5	1644.1	1636.7
50°	1559.4	1545.9	1519.0	1489.5	1473.6
52.5°	1411.1	1394.0	1359.6	1340.0	1332.7
55°	1265.2	1250.5	1221.1	1190.4	1183.1
57.5°	1129.1	1113.2	1077.7	1055.6	1051.9
60°	999.1	984.4	946.4	930.5	929.3
62.5°	883.9	859.4	833.7	822.6	823.9
65°	772.4	747.9	720.9	718.4	725.8
67.5°	674.3	648.5	621.6	631.4	638.7
70°	575.0	556.6	541.9	557.8	567.6
72.5°	490.4	479.4	465.9	488.0	500.2
75°	422.9	408.2	400.9	420.5	437.7
77.5°	350.6	338.4	338.4	359.2	377.6
80°	284.4	275.8	277.1	301.6	312.6
82.5°	223.2	210.9	212.1	242.8	250.1
85°	157.0	147.1	148.4	174.1	172.9
87.5°	82.1	78.4	82.1	100.5	95.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)