

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: P293034

Luminaire Tested: **24GR-LD5-85-F1-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293034
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-12)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-85-F1-UNV-L82765-W2A1-U-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8664.0 lumens
Efficiency: N/A
Efficacy: 132.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

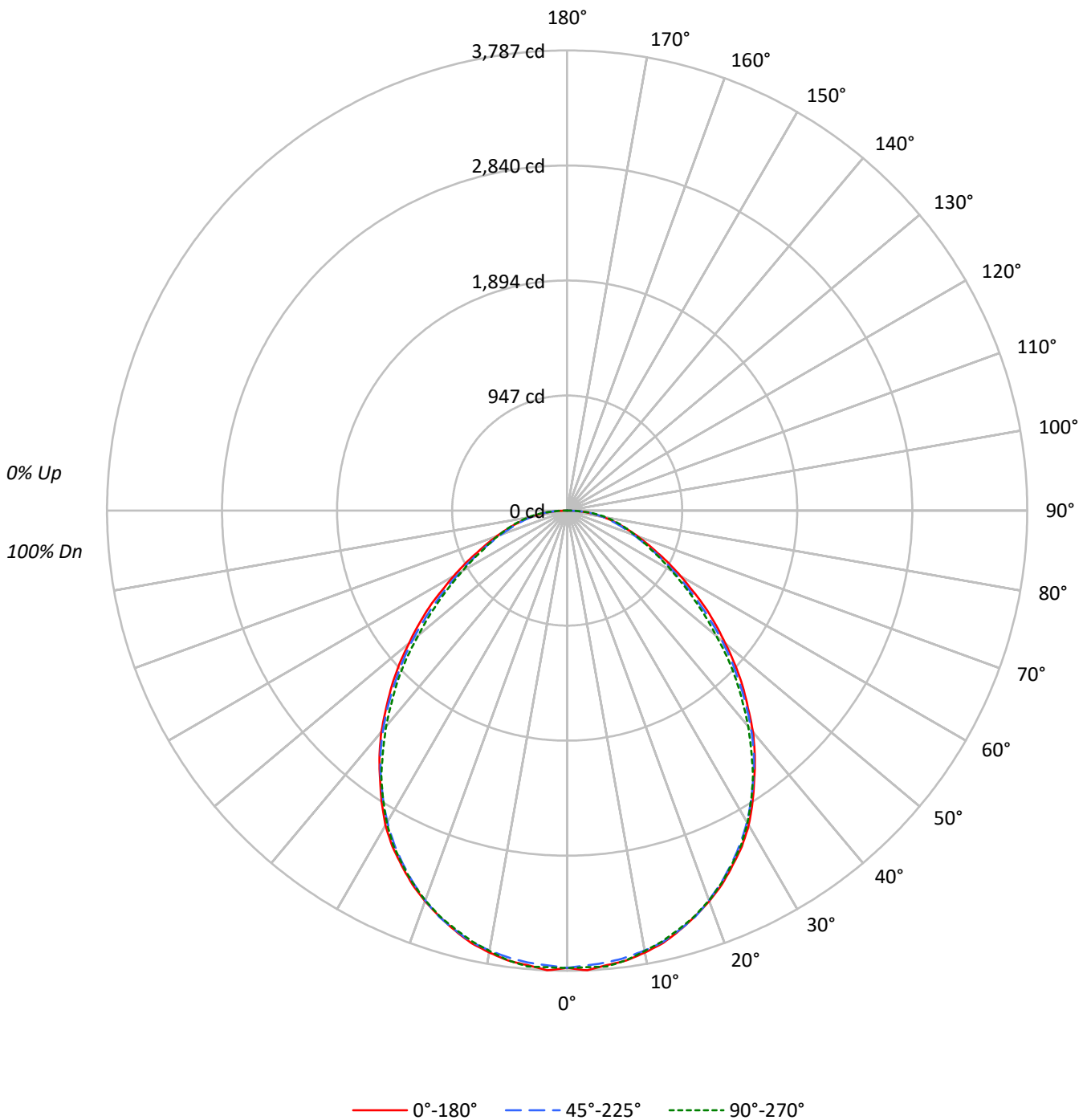
Input Watts (W): 65.193
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72					72			
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62					62			
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54					54			
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42					42			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37					37			
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	44	38	33	43	37	32	42	37	32	31					31			
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5064	5064	5064
5°	5071	5042	5085
10°	5044	5022	5027
15°	4981	4976	4964
20°	4897	4887	4887
25°	4783	4757	4767
30°	4645	4598	4612
35°	4412	4391	4379
40°	4178	4140	4068
45°	3883	3815	3740
50°	3557	3479	3348
55°	3249	3102	2997
60°	2895	2756	2683
65°	2606	2469	2435
70°	2418	2271	2362
75°	2313	2211	2397
80°	2312	2312	2562
85°	2401	2428	2703



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.4	4.1
10°-20°	1005.8	11.6
20°-30°	1476.2	17.0
30°-40°	1668.9	19.3
40°-50°	1542.4	17.8
50°-60°	1188.4	13.7
60°-70°	786.9	9.1
70°-80°	468.4	5.4
80°-90°	171.6	2.0
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°	2837.4	32.7
0°-40°	4506.3	52.0
0°-60°	7237.1	83.5
0°-90°	8664.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8664.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3763	3763	3763	3763	3763	
5°	3754	3754	3733	3735	3765	357
15°	3576	3569	3572	3570	3563	1008
25°	3222	3213	3204	3200	3211	1484
35°	2686	2682	2673	2661	2666	1681
45°	2041	2026	2005	1969	1966	1572
55°	1385	1356	1322	1287	1278	1235
65°	818	806	776	768	765	821
75°	445	434	425	445	461	474
85°	156	146	157	173	175	165
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3763.4	3763.4	3763.4	3763.4	3763.4
2.5°	3786.7	3767.0	3745.6	3745.6	3761.6
5°	3754.5	3754.5	3733.1	3734.8	3765.2
7.5°	3734.8	3724.1	3709.8	3709.8	3733.1
10°	3692.0	3683.0	3675.9	3672.3	3679.4
12.5°	3645.5	3631.2	3636.6	3631.2	3629.4
15°	3575.8	3568.7	3572.2	3570.4	3563.3
17.5°	3500.7	3497.2	3504.3	3491.8	3497.2
20°	3420.3	3409.6	3413.2	3406.0	3413.2
22.5°	3329.2	3322.0	3313.1	3304.2	3318.5
25°	3222.0	3213.0	3204.1	3200.5	3211.3
27.5°	3114.8	3100.5	3087.9	3084.4	3100.5
30°	2989.7	2973.6	2959.3	2955.7	2968.2
32.5°	2841.3	2837.8	2819.9	2812.7	2818.1
35°	2685.9	2682.3	2673.4	2660.9	2666.2
37.5°	2537.5	2535.8	2523.3	2501.8	2487.5
40°	2378.5	2366.0	2357.1	2326.7	2316.0
42.5°	2203.4	2199.8	2183.7	2149.8	2137.3
45°	2040.8	2026.5	2005.0	1969.3	1965.7
47.5°	1872.8	1853.1	1833.5	1788.8	1787.0
50°	1699.4	1685.1	1661.9	1617.2	1599.4
52.5°	1538.6	1519.0	1486.8	1443.9	1435.0
55°	1384.9	1356.3	1322.4	1286.6	1277.7
57.5°	1220.5	1208.0	1166.9	1138.3	1127.6
60°	1075.8	1065.1	1024.0	997.1	997.1
62.5°	945.3	929.2	893.5	875.6	875.6
65°	818.4	805.9	775.6	768.4	764.8
67.5°	709.4	693.4	671.9	670.1	679.1
70°	614.7	595.1	577.2	595.1	600.4
72.5°	525.4	512.9	496.8	520.0	530.7
75°	445.0	434.2	425.3	445.0	461.0
77.5°	371.7	361.0	361.0	382.4	396.7
80°	298.4	291.3	298.4	316.3	330.6
82.5°	228.7	223.4	232.3	250.2	259.1
85°	155.5	146.5	157.3	173.3	175.1
87.5°	73.3	71.5	78.6	89.4	87.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)