

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: P293664

Luminaire Tested: **24GR-LD5-85-A-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293664
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-85-A-UNV-L92765-W2A1-U-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7959.0 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

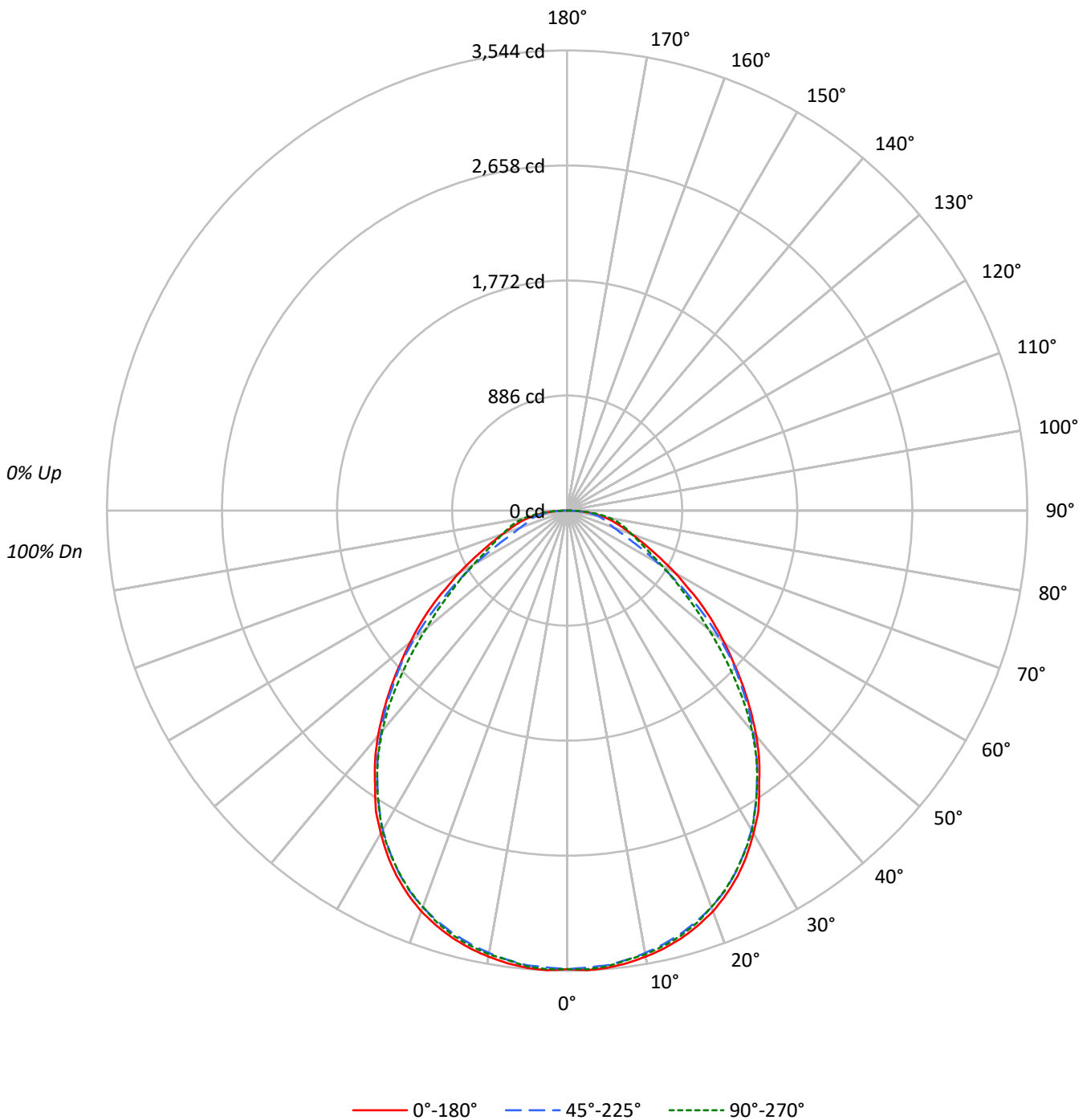
Input Watts (W): 65.286
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63					63			
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	53	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43					43			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35					35			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4751	4751	4751
5°	4774	4748	4759
10°	4766	4727	4741
15°	4748	4700	4720
20°	4702	4655	4653
25°	4611	4562	4558
30°	4459	4413	4422
35°	4235	4187	4193
40°	3982	3913	3889
45°	3650	3601	3458
50°	3300	3210	2968
55°	2962	2697	2558
60°	2594	2171	2250
65°	2263	1707	2071
70°	2070	1490	2070
75°	2071	1585	2282
80°	2249	1867	2601
85°	2467	2107	2790



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.4	4.2
10°-20°	954.3	12.0
20°-30°	1415.1	17.8
30°-40°	1596.4	20.1
40°-50°	1445.8	18.2
50°-60°	1043.1	13.1
60°-70°	622.8	7.8
70°-80°	384.9	4.8
80°-90°	162.2	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°	2703.8	34.0
0°-40°	4300.2	54.0
0°-60°	6789.1	85.3
0°-90°	7959.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7959.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3531	3531	3531	3531	3531	
5°	3535	3530	3515	3512	3524	336
15°	3408	3388	3374	3375	3389	961
25°	3106	3089	3073	3062	3070	1427
35°	2578	2575	2549	2550	2553	1613
45°	1918	1906	1892	1846	1817	1478
55°	1263	1223	1150	1093	1091	1127
65°	711	626	536	609	650	715
75°	398	346	305	380	439	425
85°	160	140	136	178	181	167
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3531.3	3531.3	3531.3	3531.3	3531.3
2.5°	3543.6	3533.8	3521.5	3528.9	3535.0
5°	3535.0	3530.1	3515.3	3511.6	3523.9
7.5°	3516.6	3504.3	3490.7	3496.9	3492.0
10°	3488.3	3477.2	3460.0	3461.2	3469.8
12.5°	3453.9	3440.3	3421.9	3426.8	3434.2
15°	3408.4	3387.5	3373.9	3375.2	3388.7
17.5°	3350.6	3334.6	3317.4	3321.1	3327.2
20°	3284.2	3275.6	3251.0	3243.6	3249.7
22.5°	3200.6	3184.6	3171.1	3167.4	3168.6
25°	3105.9	3088.7	3072.7	3061.6	3070.2
27.5°	2995.2	2980.5	2959.6	2955.9	2963.3
30°	2869.8	2858.7	2840.3	2835.4	2846.4
32.5°	2741.9	2723.5	2697.7	2697.7	2700.1
35°	2578.4	2574.7	2548.9	2550.1	2552.6
37.5°	2430.9	2413.6	2398.9	2384.1	2391.5
40°	2267.3	2247.6	2228.0	2218.1	2214.4
42.5°	2091.5	2076.7	2068.1	2032.5	2023.9
45°	1918.1	1905.8	1892.3	1845.6	1817.3
47.5°	1741.1	1738.6	1727.5	1645.2	1616.9
50°	1576.3	1572.6	1533.3	1446.0	1417.7
52.5°	1420.1	1395.6	1343.9	1257.8	1252.9
55°	1262.8	1223.4	1149.6	1093.1	1090.6
57.5°	1096.8	1050.1	975.0	944.3	960.3
60°	964.0	892.7	806.6	810.3	836.1
62.5°	826.3	746.3	661.5	698.4	729.1
65°	710.7	625.8	536.1	608.6	650.4
67.5°	609.9	531.2	445.1	542.2	582.8
70°	526.3	462.3	378.7	480.8	526.3
72.5°	459.9	400.8	335.7	431.6	484.4
75°	398.4	345.5	304.9	379.9	439.0
77.5°	345.5	293.9	275.4	335.7	393.5
80°	290.2	243.5	241.0	292.6	335.7
82.5°	226.2	194.3	194.3	244.7	270.5
85°	159.8	140.2	136.5	178.3	180.7
87.5°	82.4	78.7	71.3	93.4	93.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)