

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: P293659

Luminaire Tested: **24GR-LD5-85-A-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293659
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-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7407.0 lumens
Efficiency: N/A
Efficacy: 117.3 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

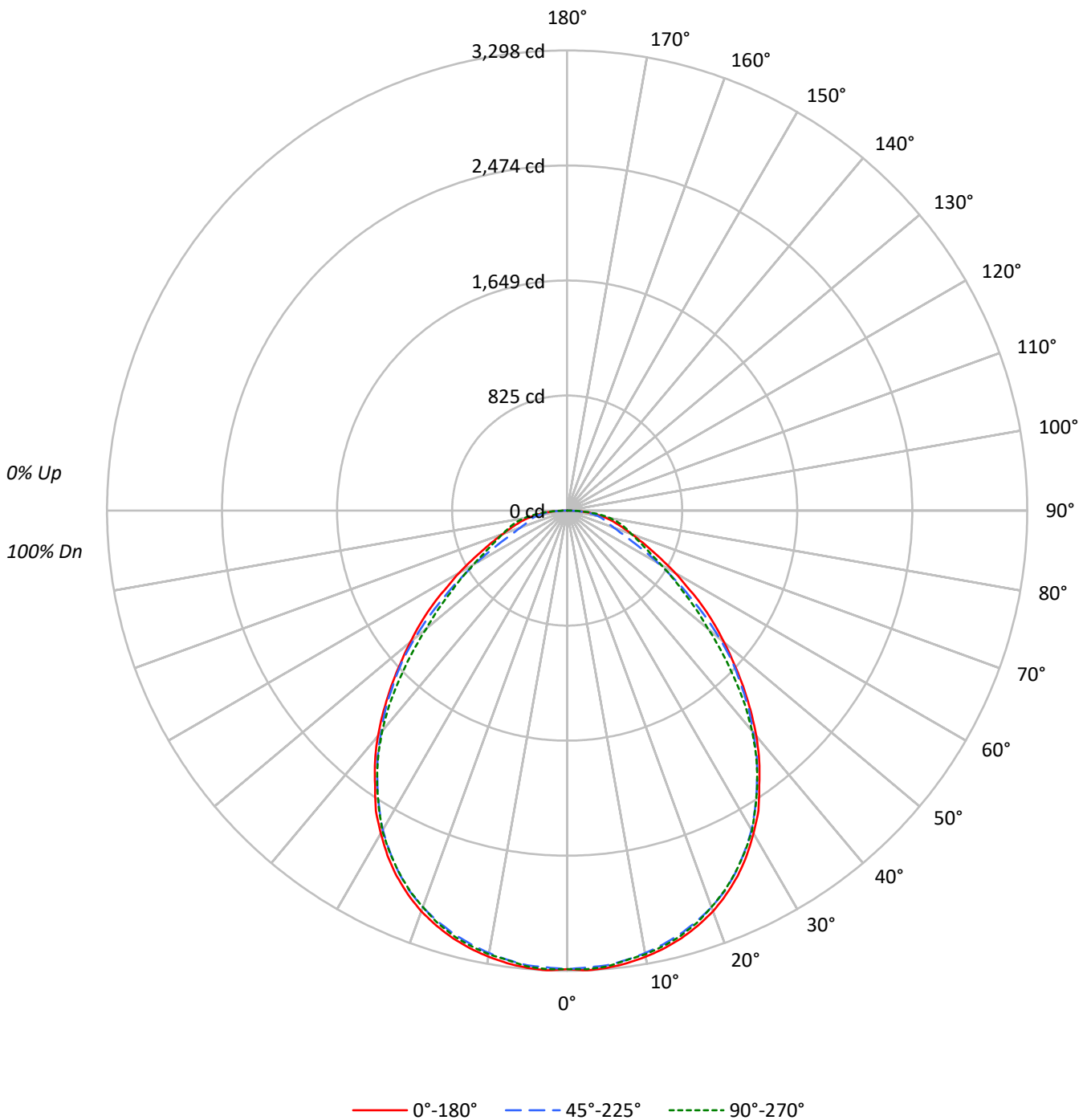
Input Watts (W): 63.147
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4422	4422	4422
5°	4443	4419	4429
10°	4435	4399	4412
15°	4418	4374	4393
20°	4376	4332	4330
25°	4291	4245	4242
30°	4149	4107	4116
35°	3941	3896	3902
40°	3706	3642	3620
45°	3397	3351	3218
50°	3071	2987	2762
55°	2757	2510	2381
60°	2414	2020	2094
65°	2106	1588	1927
70°	1927	1386	1927
75°	1927	1475	2124
80°	2093	1738	2421
85°	2297	1961	2597



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.2	4.2
10°-20°	888.1	12.0
20°-30°	1316.9	17.8
30°-40°	1485.7	20.1
40°-50°	1345.6	18.2
50°-60°	970.7	13.1
60°-70°	579.6	7.8
70°-80°	358.2	4.8
80°-90°	150.9	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°	2516.3	34.0
0°-40°	4001.9	54.0
0°-60°	6318.2	85.3
0°-90°	7407.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7407.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3286	3286	3286	3286	3286	
5°	3290	3285	3272	3268	3280	313
15°	3172	3152	3140	3141	3154	894
25°	2890	2874	2860	2849	2857	1328
35°	2400	2396	2372	2373	2376	1501
45°	1785	1774	1761	1718	1691	1376
55°	1175	1139	1070	1017	1015	1049
65°	661	582	499	566	605	665
75°	371	322	284	354	408	396
85°	149	130	127	166	168	155
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3286.4	3286.4	3286.4	3286.4	3286.4
2.5°	3297.8	3288.7	3277.2	3284.1	3289.8
5°	3289.8	3285.3	3271.5	3268.1	3279.5
7.5°	3272.7	3261.2	3248.6	3254.4	3249.8
10°	3246.3	3236.1	3220.0	3221.2	3229.2
12.5°	3214.3	3201.7	3184.6	3189.1	3196.0
15°	3172.0	3152.5	3139.9	3141.1	3153.7
17.5°	3118.2	3103.3	3087.3	3090.7	3096.4
20°	3056.4	3048.4	3025.5	3018.6	3024.4
22.5°	2978.6	2963.7	2951.1	2947.7	2948.8
25°	2890.5	2874.5	2859.6	2849.3	2857.3
27.5°	2787.5	2773.8	2754.3	2750.9	2757.7
30°	2670.8	2660.5	2643.3	2638.7	2649.0
32.5°	2551.8	2534.6	2510.6	2510.6	2512.9
35°	2399.6	2396.1	2372.1	2373.3	2375.5
37.5°	2262.3	2246.2	2232.5	2218.8	2225.6
40°	2110.1	2091.8	2073.5	2064.3	2060.9
42.5°	1946.4	1932.7	1924.7	1891.5	1883.5
45°	1785.1	1773.6	1761.1	1717.6	1691.3
47.5°	1620.3	1618.0	1607.7	1531.1	1504.7
50°	1467.0	1463.5	1426.9	1345.7	1319.4
52.5°	1321.7	1298.8	1250.7	1170.6	1166.0
55°	1175.2	1138.6	1069.9	1017.3	1015.0
57.5°	1020.7	977.2	907.4	878.8	893.7
60°	897.1	830.8	750.7	754.1	778.1
62.5°	769.0	694.6	615.6	650.0	678.6
65°	661.4	582.4	498.9	566.4	605.3
67.5°	567.6	494.3	414.2	504.6	542.4
70°	489.8	430.3	352.4	447.4	489.8
72.5°	428.0	373.0	312.4	401.6	450.9
75°	370.7	321.5	283.8	353.6	408.5
77.5°	321.5	273.5	256.3	312.4	366.2
80°	270.1	226.6	224.3	272.3	312.4
82.5°	210.5	180.8	180.8	227.7	251.7
85°	148.8	130.4	127.0	165.9	168.2
87.5°	76.7	73.2	66.4	87.0	87.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)