

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: P293284

Luminaire Tested: **24GR-LD5-85-F125-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293284
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33304)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-85-F125-UNV-L82765-W2A1-U-5500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8619.0 lumens
Efficiency: N/A
Efficacy: 134.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

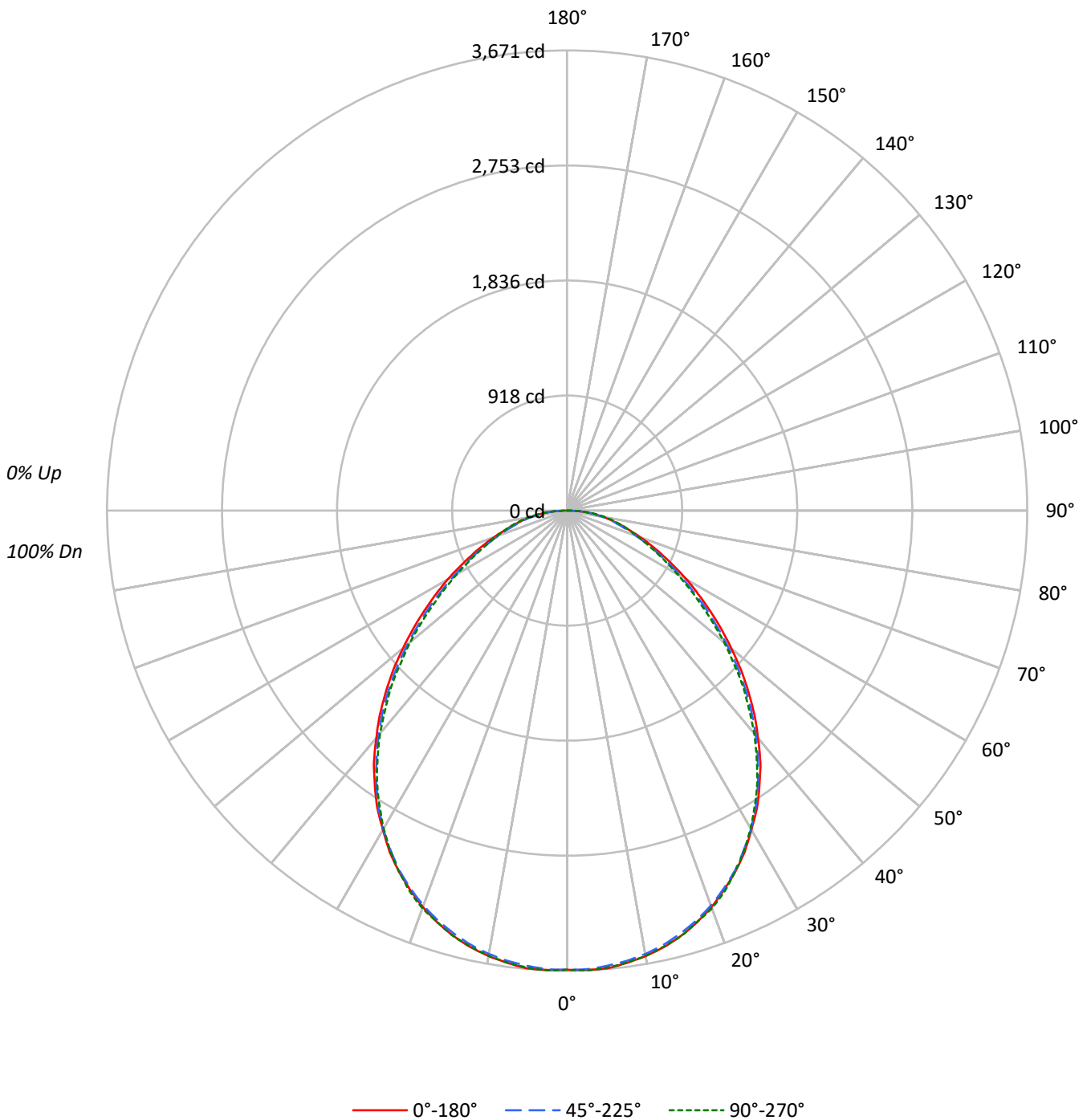
Input Watts (W): 64.17
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4929	4929	4929
5°	4951	4924	4944
10°	4931	4907	4929
15°	4892	4866	4896
20°	4821	4801	4836
25°	4716	4704	4714
30°	4567	4559	4548
35°	4395	4362	4344
40°	4160	4113	4079
45°	3891	3820	3773
50°	3576	3480	3421
55°	3261	3141	3050
60°	2962	2802	2730
65°	2668	2518	2475
70°	2443	2284	2348
75°	2283	2178	2339
80°	2265	2224	2442
85°	2308	2330	2661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.7	4.0
10°-20°	985.6	11.4
20°-30°	1456.0	16.9
30°-40°	1655.4	19.2
40°-50°	1545.9	17.9
50°-60°	1202.2	13.9
60°-70°	797.7	9.3
70°-80°	461.6	5.4
80°-90°	167.9	1.9
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°	2788.3	32.4
0°-40°	4443.7	51.6
0°-60°	7191.8	83.4
0°-90°	8619.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8619.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3663	3663	3663	3663	3663	
5°	3666	3647	3646	3652	3660	348
15°	3512	3495	3493	3492	3515	989
25°	3177	3163	3169	3162	3175	1461
35°	2676	2662	2655	2636	2645	1670
45°	2045	2029	2007	1982	1983	1576
55°	1390	1370	1339	1304	1300	1247
65°	838	812	791	776	777	837
75°	439	428	419	438	450	470
85°	150	147	151	171	172	163
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3663.1	3663.1	3663.1	3663.1	3663.1
2.5°	3668.5	3657.7	3663.1	3659.0	3671.2
5°	3665.8	3646.9	3645.6	3652.3	3660.4
7.5°	3640.2	3620.0	3624.0	3624.0	3637.5
10°	3609.2	3589.0	3591.7	3593.0	3607.8
12.5°	3567.4	3547.2	3548.6	3547.2	3562.0
15°	3512.2	3494.7	3493.3	3492.0	3514.9
17.5°	3444.8	3420.6	3428.7	3430.0	3442.1
20°	3366.7	3347.8	3353.2	3351.9	3377.5
22.5°	3273.7	3260.3	3264.3	3261.6	3285.9
25°	3176.7	3163.3	3168.6	3161.9	3175.4
27.5°	3067.6	3058.2	3052.8	3048.7	3058.2
30°	2939.6	2934.2	2934.2	2916.7	2927.5
32.5°	2818.4	2800.9	2800.9	2794.1	2787.4
35°	2675.6	2662.1	2655.4	2636.5	2644.6
37.5°	2532.8	2501.8	2499.1	2484.3	2484.3
40°	2368.4	2350.9	2341.5	2325.3	2322.6
42.5°	2212.1	2194.6	2178.4	2151.5	2146.1
45°	2045.1	2028.9	2007.3	1981.8	1983.1
47.5°	1879.4	1856.5	1836.3	1805.3	1801.2
50°	1708.3	1692.1	1662.5	1635.5	1634.2
52.5°	1547.9	1522.4	1495.4	1463.1	1463.1
55°	1390.3	1370.1	1339.1	1304.1	1300.1
57.5°	1239.4	1220.6	1185.5	1160.0	1153.2
60°	1100.7	1073.7	1041.4	1019.8	1014.5
62.5°	961.9	937.7	913.4	891.9	890.5
65°	838.0	812.4	790.8	776.0	777.3
67.5°	726.1	704.6	680.3	676.3	677.6
70°	621.1	598.2	580.6	590.1	596.8
72.5°	521.4	509.2	497.1	510.6	520.0
75°	439.2	428.4	419.0	437.8	450.0
77.5°	363.7	355.7	354.3	370.5	381.3
80°	292.3	282.9	287.0	305.8	315.2
82.5°	222.3	215.6	216.9	239.8	246.5
85°	149.5	146.8	150.9	171.1	172.4
87.5°	79.5	79.5	82.2	94.3	90.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)