

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: P293632

Luminaire Tested: **24GR-LD5-56-A-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293632
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-LD5-56-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: 5035.0 lumens
Efficiency: N/A
Efficacy: 127.7 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

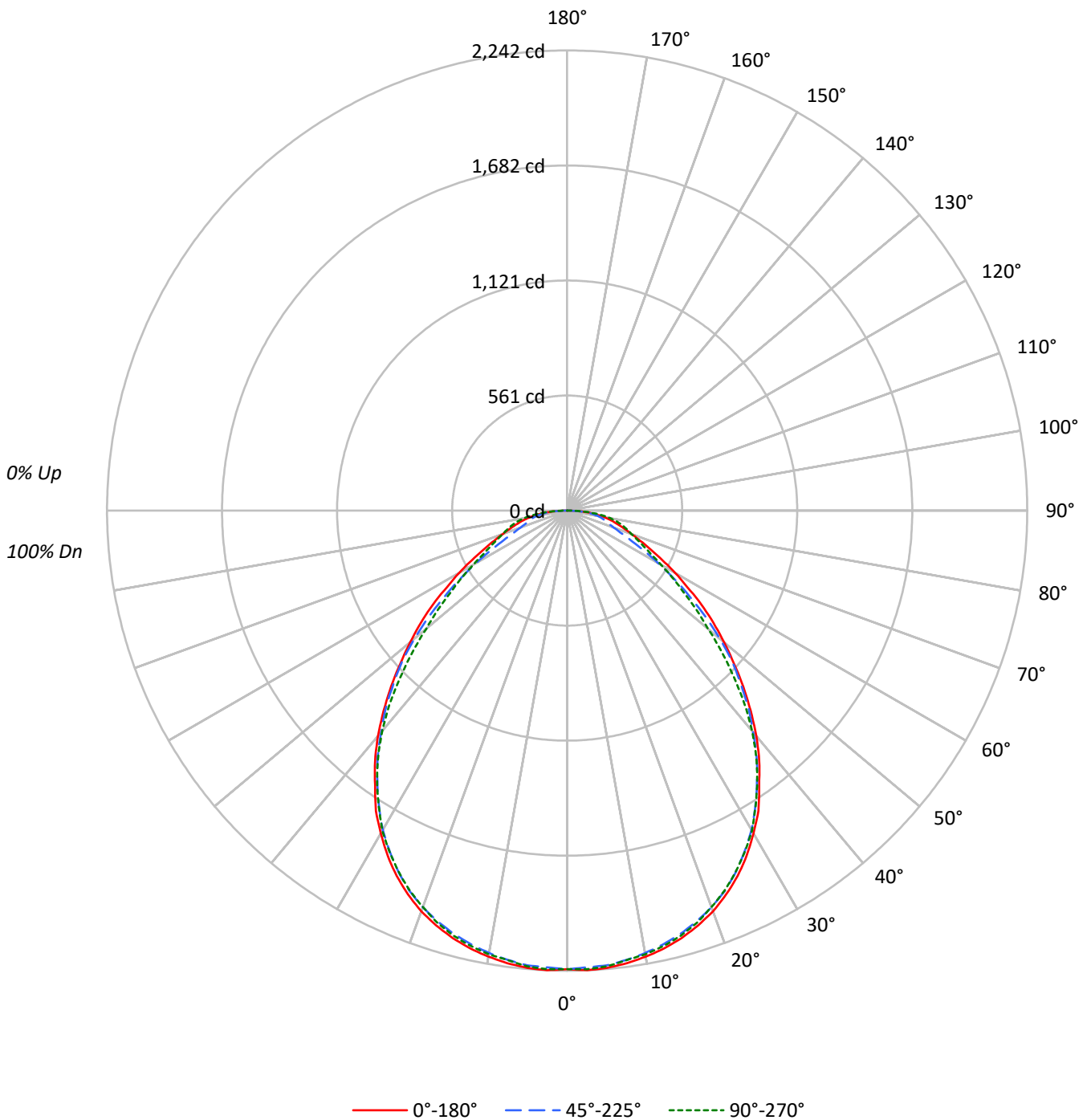
Input Watts (W): 39.432
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3006	3006	3006
5°	3020	3004	3011
10°	3015	2991	2999
15°	3003	2973	2986
20°	2975	2945	2944
25°	2917	2886	2884
30°	2821	2792	2798
35°	2679	2649	2652
40°	2519	2476	2461
45°	2309	2278	2188
50°	2087	2030	1877
55°	1874	1706	1618
60°	1641	1373	1423
65°	1431	1080	1310
70°	1310	943	1310
75°	1310	1003	1444
80°	1423	1182	1646
85°	1561	1332	1765



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.5	4.2
10°-20°	603.7	12.0
20°-30°	895.2	17.8
30°-40°	1009.9	20.1
40°-50°	914.7	18.2
50°-60°	659.9	13.1
60°-70°	394.0	7.8
70°-80°	243.5	4.8
80°-90°	102.6	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°	1710.5	34.0
0°-40°	2720.4	54.0
0°-60°	4294.9	85.3
0°-90°	5035.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5035.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2234	2234	2234	2234	2234	
5°	2236	2233	2224	2222	2229	212
15°	2156	2143	2134	2135	2144	608
25°	1965	1954	1944	1937	1942	903
35°	1631	1629	1612	1613	1615	1021
45°	1213	1206	1197	1168	1150	935
55°	799	774	727	692	690	713
65°	450	396	339	385	412	452
75°	252	219	193	240	278	269
85°	101	89	86	113	114	106
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2234.0	2234.0	2234.0	2234.0	2234.0
2.5°	2241.7	2235.5	2227.7	2232.4	2236.3
5°	2236.3	2233.2	2223.9	2221.5	2229.3
7.5°	2224.6	2216.9	2208.3	2212.2	2209.1
10°	2206.7	2199.7	2188.9	2189.6	2195.1
12.5°	2185.0	2176.4	2164.7	2167.9	2172.5
15°	2156.2	2143.0	2134.4	2135.2	2143.7
17.5°	2119.6	2109.5	2098.6	2101.0	2104.8
20°	2077.6	2072.2	2056.6	2052.0	2055.8
22.5°	2024.7	2014.6	2006.1	2003.7	2004.5
25°	1964.8	1953.9	1943.8	1936.8	1942.3
27.5°	1894.8	1885.5	1872.3	1869.9	1874.6
30°	1815.5	1808.5	1796.8	1793.7	1800.7
32.5°	1734.6	1722.9	1706.6	1706.6	1708.1
35°	1631.1	1628.8	1612.5	1613.3	1614.8
37.5°	1537.8	1526.9	1517.6	1508.2	1512.9
40°	1434.3	1421.9	1409.5	1403.2	1400.9
42.5°	1323.1	1313.8	1308.3	1285.8	1280.3
45°	1213.4	1205.7	1197.1	1167.5	1149.7
47.5°	1101.4	1099.9	1092.9	1040.8	1022.9
50°	997.2	994.9	970.0	914.7	896.9
52.5°	898.4	882.9	850.2	795.7	792.6
55°	798.8	774.0	727.3	691.5	689.9
57.5°	693.8	664.3	616.8	597.4	607.5
60°	609.8	564.7	510.3	512.6	528.9
62.5°	522.7	472.2	418.5	441.8	461.3
65°	449.6	395.9	339.1	385.0	411.5
67.5°	385.8	336.0	281.6	343.0	368.7
70°	332.9	292.5	239.6	304.1	332.9
72.5°	290.9	253.6	212.4	273.0	306.5
75°	252.0	218.6	192.9	240.4	277.7
77.5°	218.6	185.9	174.2	212.4	248.9
80°	183.6	154.0	152.5	185.1	212.4
82.5°	143.1	122.9	122.9	154.8	171.1
85°	101.1	88.7	86.3	112.8	114.3
87.5°	52.1	49.8	45.1	59.1	59.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)