

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: P293569

Luminaire Tested: **24GR-LD5-64-A-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293569
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-LD5-64-A-UNV-L93050-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5036.0 lumens
Efficiency: N/A
Efficacy: 107.2 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

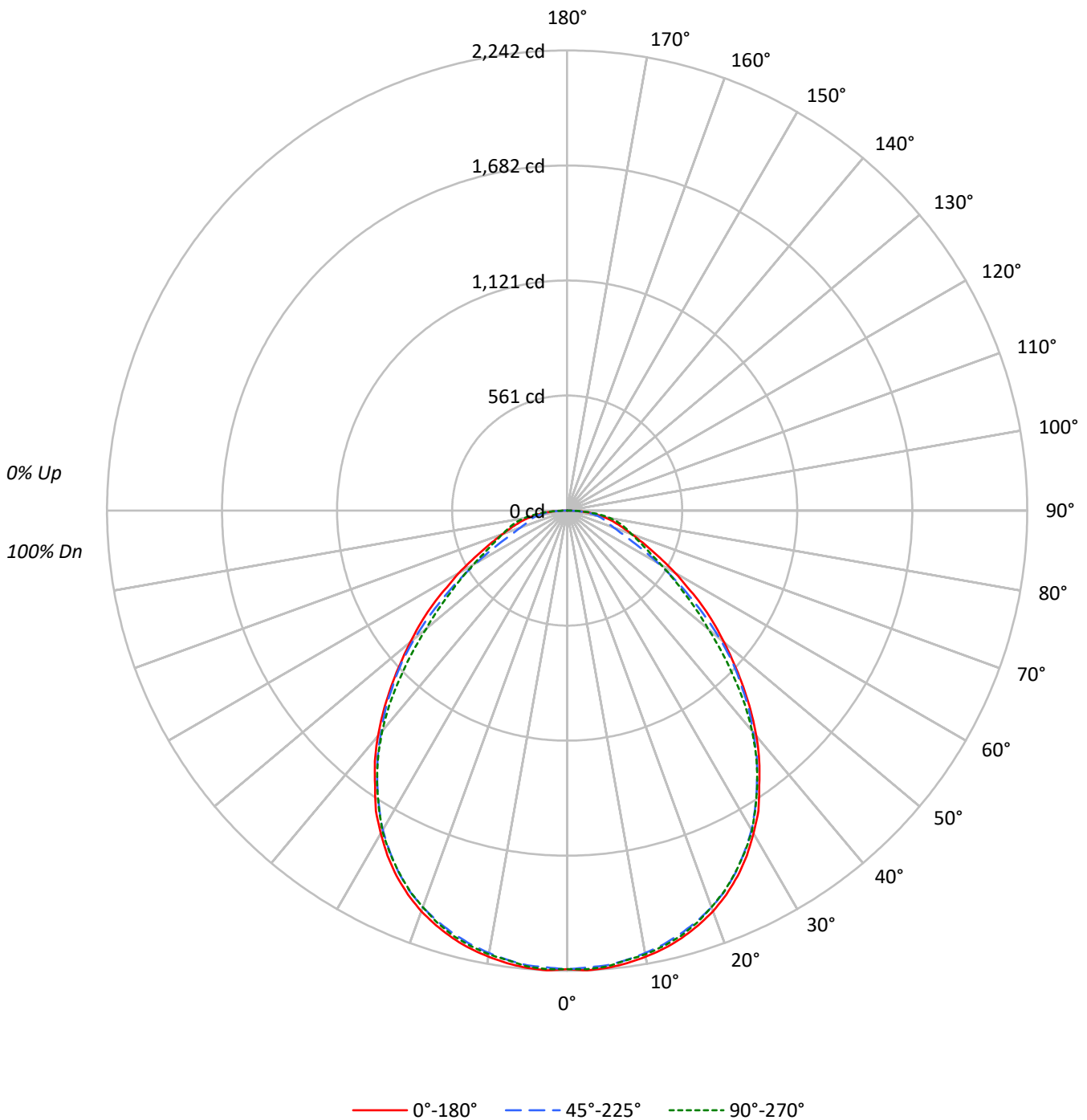
Input Watts (W): 46.998666
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3006	3006	3006
5°	3021	3004	3011
10°	3016	2991	3000
15°	3004	2974	2987
20°	2975	2945	2944
25°	2918	2886	2884
30°	2821	2792	2798
35°	2680	2649	2653
40°	2520	2476	2461
45°	2309	2278	2188
50°	2088	2031	1878
55°	1874	1706	1619
60°	1641	1373	1424
65°	1432	1080	1310
70°	1310	943	1310
75°	1311	1003	1444
80°	1423	1182	1646
85°	1561	1334	1766



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.6	4.2
10°-20°	603.8	12.0
20°-30°	895.4	17.8
30°-40°	1010.1	20.1
40°-50°	914.8	18.2
50°-60°	660.0	13.1
60°-70°	394.1	7.8
70°-80°	243.6	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°	1710.8	34.0
0°-40°	2720.9	54.0
0°-60°	4295.7	85.3
0°-90°	5036.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5036.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2234	2234	2234	2234	2234	
5°	2237	2234	2224	2222	2230	213
15°	2157	2143	2135	2136	2144	608
25°	1965	1954	1944	1937	1943	903
35°	1632	1629	1613	1614	1615	1021
45°	1214	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°	2234.4	2234.4	2234.4	2234.4	2234.4
2.5°	2242.2	2236.0	2228.2	2232.9	2236.7
5°	2236.7	2233.6	2224.3	2222.0	2229.7
7.5°	2225.1	2217.3	2208.7	2212.6	2209.5
10°	2207.2	2200.2	2189.3	2190.1	2195.5
12.5°	2185.4	2176.8	2165.2	2168.3	2173.0
15°	2156.6	2143.4	2134.8	2135.6	2144.2
17.5°	2120.0	2109.9	2099.0	2101.4	2105.3
20°	2078.0	2072.6	2057.0	2052.4	2056.3
22.5°	2025.1	2015.0	2006.5	2004.1	2004.9
25°	1965.2	1954.3	1944.2	1937.2	1942.7
27.5°	1895.2	1885.9	1872.6	1870.3	1875.0
30°	1815.9	1808.8	1797.2	1794.1	1801.1
32.5°	1734.9	1723.3	1706.9	1706.9	1708.5
35°	1631.5	1629.1	1612.8	1613.6	1615.1
37.5°	1538.1	1527.2	1517.9	1508.5	1513.2
40°	1434.6	1422.2	1409.7	1403.5	1401.2
42.5°	1323.4	1314.0	1308.6	1286.0	1280.6
45°	1213.7	1205.9	1197.3	1167.8	1149.9
47.5°	1101.6	1100.1	1093.1	1041.0	1023.1
50°	997.4	995.1	970.2	914.9	897.0
52.5°	898.6	883.0	850.4	795.9	792.8
55°	799.0	774.1	727.4	691.6	690.1
57.5°	694.0	664.4	617.0	597.5	607.6
60°	610.0	564.8	510.4	512.7	529.0
62.5°	522.8	472.2	418.6	441.9	461.4
65°	449.7	396.0	339.2	385.1	411.6
67.5°	385.9	336.1	281.6	343.1	368.8
70°	333.0	292.5	239.6	304.2	333.0
72.5°	291.0	253.6	212.4	273.1	306.5
75°	252.1	218.6	192.9	240.4	277.7
77.5°	218.6	185.9	174.3	212.4	249.0
80°	183.6	154.0	152.5	185.2	212.4
82.5°	143.2	122.9	122.9	154.8	171.2
85°	101.1	88.7	86.4	112.8	114.4
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)