

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: P293429

Luminaire Tested: **24GR-LD5-42-A-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293429
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-LD5-42-A-UNV-L83050-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4241.0 lumens
Efficiency: N/A
Efficacy: 151.5 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

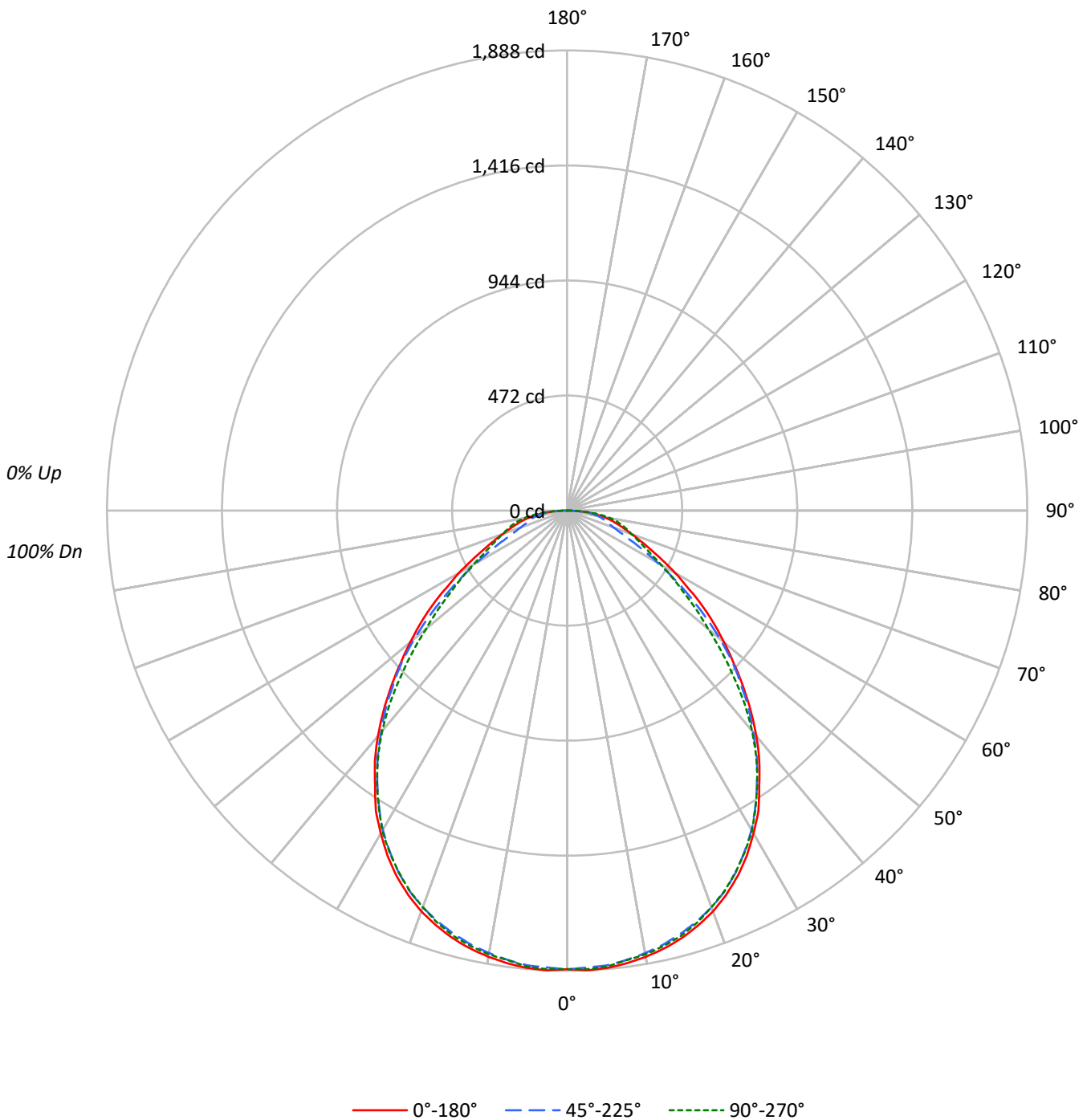
Input Watts (W): 27.993
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2532	2532	2532
5°	2544	2530	2536
10°	2540	2519	2526
15°	2530	2504	2515
20°	2506	2480	2479
25°	2457	2431	2429
30°	2376	2351	2356
35°	2257	2231	2234
40°	2122	2085	2073
45°	1945	1919	1843
50°	1758	1710	1581
55°	1578	1437	1363
60°	1382	1157	1199
65°	1206	910	1103
70°	1103	794	1103
75°	1104	845	1216
80°	1198	995	1386
85°	1315	1122	1487



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.2	4.2
10°-20°	508.5	12.0
20°-30°	754.0	17.8
30°-40°	850.6	20.1
40°-50°	770.4	18.2
50°-60°	555.8	13.1
60°-70°	331.9	7.8
70°-80°	205.1	4.8
80°-90°	86.4	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°	1440.7	34.0
0°-40°	2291.4	54.0
0°-60°	3617.6	85.3
0°-90°	4241.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4241.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1882	1882	1882	1882	1882	
5°	1884	1881	1873	1871	1878	179
15°	1816	1805	1798	1798	1806	512
25°	1655	1646	1637	1631	1636	760
35°	1374	1372	1358	1359	1360	860
45°	1022	1016	1008	983	968	788
55°	673	652	613	582	581	601
65°	379	334	286	324	347	381
75°	212	184	162	202	234	227
85°	85	75	73	95	96	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1881.7	1881.7	1881.7	1881.7	1881.7
2.5°	1888.2	1883.0	1876.4	1880.4	1883.6
5°	1883.6	1881.0	1873.2	1871.2	1877.8
7.5°	1873.8	1867.3	1860.1	1863.3	1860.7
10°	1858.8	1852.9	1843.7	1844.3	1848.9
12.5°	1840.4	1833.2	1823.4	1826.0	1829.9
15°	1816.2	1805.0	1797.8	1798.5	1805.7
17.5°	1785.4	1776.9	1767.7	1769.6	1772.9
20°	1750.0	1745.4	1732.3	1728.4	1731.6
22.5°	1705.4	1696.9	1689.7	1687.7	1688.4
25°	1655.0	1645.8	1637.3	1631.4	1636.0
27.5°	1596.0	1588.2	1577.0	1575.1	1579.0
30°	1529.2	1523.3	1513.5	1510.8	1516.7
32.5°	1461.1	1451.2	1437.5	1437.5	1438.8
35°	1373.9	1372.0	1358.2	1358.8	1360.2
37.5°	1295.3	1286.1	1278.3	1270.4	1274.3
40°	1208.2	1197.7	1187.2	1181.9	1180.0
42.5°	1114.5	1106.6	1102.0	1083.0	1078.4
45°	1022.1	1015.5	1008.3	983.4	968.4
47.5°	927.7	926.4	920.5	876.6	861.6
50°	839.9	838.0	817.0	770.5	755.4
52.5°	756.7	743.6	716.1	670.3	667.6
55°	672.9	651.9	612.6	582.5	581.1
57.5°	584.4	559.5	519.6	503.2	511.7
60°	513.7	475.7	429.8	431.8	445.5
62.5°	440.3	397.7	352.5	372.1	388.5
65°	378.7	333.5	285.7	324.3	346.6
67.5°	325.0	283.0	237.2	288.9	310.6
70°	280.4	246.3	201.8	256.2	280.4
72.5°	245.0	213.6	178.9	230.0	258.1
75°	212.3	184.1	162.5	202.5	233.9
77.5°	184.1	156.6	146.8	178.9	209.7
80°	154.6	129.7	128.4	155.9	178.9
82.5°	120.6	103.5	103.5	130.4	144.1
85°	85.2	74.7	72.7	95.0	96.3
87.5°	43.9	41.9	38.0	49.8	49.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)