

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: P292218

Luminaire Tested: **22GR-LD5-43-A-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292218
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33296)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-43-A-UNV-L82765-W2A1-U-4500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4410.0 lumens
Efficiency: N/A
Efficacy: 123.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

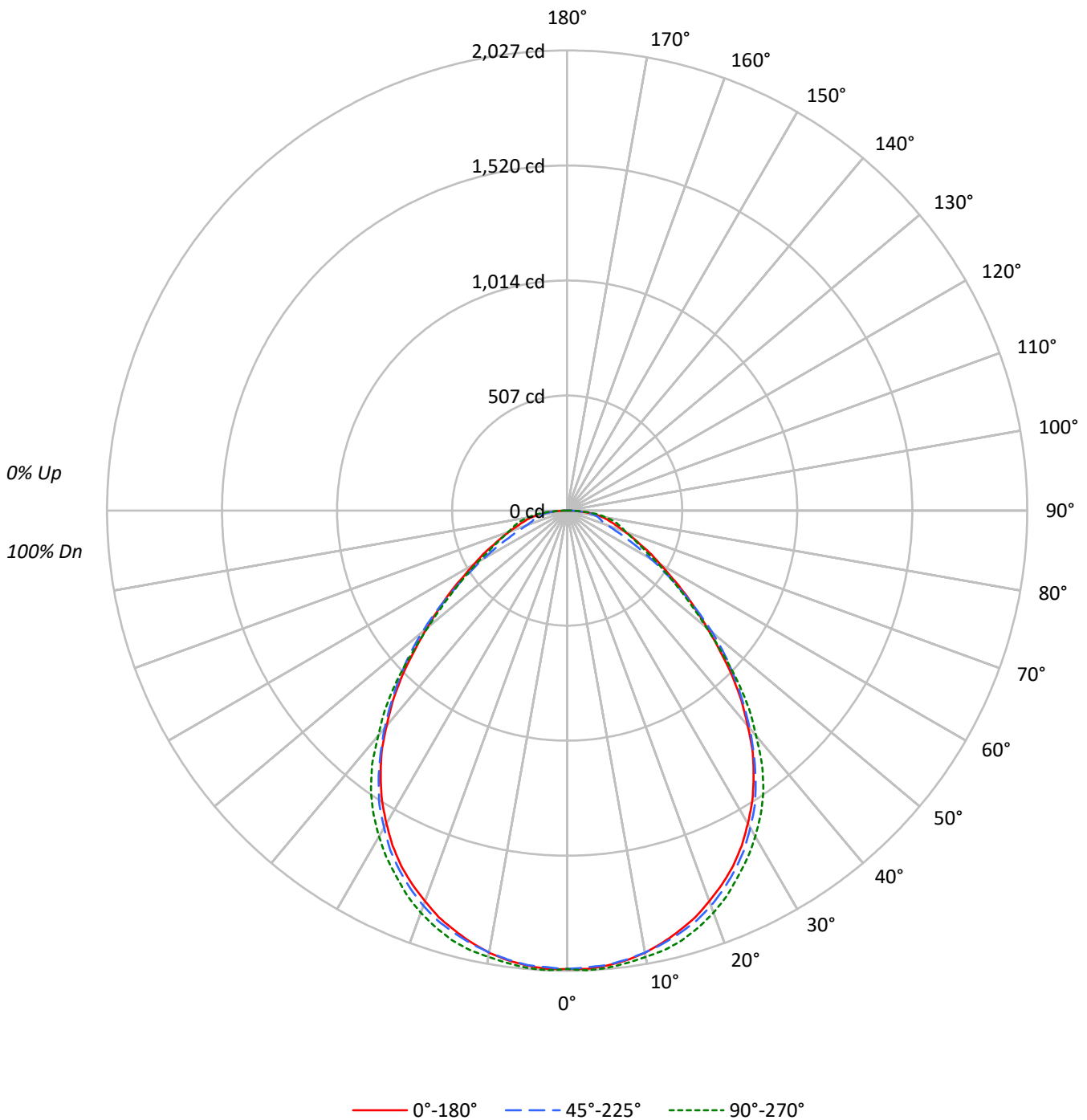
Input Watts (W): 35.805
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74					74			
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56					56			
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49					49			
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44					44			
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39					39			
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36					36			
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32					32			
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30					30			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5435	5435	5435
5°	5436	5428	5461
10°	5404	5401	5454
15°	5335	5363	5458
20°	5243	5304	5399
25°	5131	5189	5284
30°	4946	5013	5150
35°	4703	4757	4949
40°	4347	4395	4549
45°	3905	3976	4038
50°	3377	3497	3342
55°	2947	2869	2831
60°	2552	2298	2452
65°	2281	1803	2202
70°	2116	1494	2172
75°	2113	1579	2411
80°	2338	1988	2720
85°	2439	2155	3072



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.1	4.3
10°-20°	544.3	12.3
20°-30°	805.0	18.3
30°-40°	908.5	20.6
40°-50°	800.8	18.2
50°-60°	549.4	12.5
60°-70°	324.2	7.4
70°-80°	202.3	4.6
80°-90°	84.3	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°	1540.5	34.9
0°-40°	2449.0	55.5
0°-60°	3799.2	86.1
0°-90°	4410.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4410.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2020	2020	2020	2020	2020	
5°	2012	2008	2009	2016	2022	191
15°	1915	1917	1925	1949	1959	540
25°	1728	1734	1748	1770	1780	794
35°	1432	1444	1448	1483	1506	892
45°	1026	1031	1045	1051	1061	788
55°	628	613	612	591	603	563
65°	358	315	283	327	346	361
75°	203	183	152	212	232	218
85°	79	74	70	91	100	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2019.6	2019.6	2019.6	2019.6	2019.6
2.5°	2020.6	2015.5	2013.5	2021.7	2026.8
5°	2012.4	2008.3	2009.4	2016.5	2021.7
7.5°	1998.1	1995.0	1995.0	2005.3	2010.4
10°	1977.5	1976.5	1976.5	1988.8	1996.0
12.5°	1948.8	1949.8	1953.9	1970.4	1982.7
15°	1914.9	1917.0	1925.2	1948.8	1959.1
17.5°	1878.0	1878.0	1894.4	1912.9	1925.2
20°	1830.8	1833.9	1852.3	1872.9	1885.2
22.5°	1782.6	1787.7	1803.1	1826.7	1838.0
25°	1728.2	1734.3	1747.7	1770.2	1779.5
27.5°	1664.5	1672.8	1687.1	1703.5	1723.0
30°	1591.7	1604.0	1613.2	1635.8	1657.4
32.5°	1517.8	1529.1	1539.3	1562.9	1587.6
35°	1431.6	1443.9	1448.0	1482.9	1506.5
37.5°	1343.3	1348.5	1350.5	1385.4	1411.1
40°	1237.6	1247.9	1251.0	1278.7	1295.1
42.5°	1136.0	1140.1	1146.3	1166.8	1186.3
45°	1026.2	1031.4	1044.7	1050.9	1061.1
47.5°	911.3	926.7	942.1	922.6	923.6
50°	806.6	818.9	835.4	798.4	798.4
52.5°	713.2	719.4	720.4	689.6	695.8
55°	628.1	612.7	611.6	591.1	603.4
57.5°	542.9	522.4	515.2	509.0	523.4
60°	474.1	437.2	426.9	436.1	455.6
62.5°	417.7	370.5	351.0	374.6	392.0
65°	358.2	315.1	283.2	327.4	345.8
67.5°	312.0	270.9	229.9	292.5	305.8
70°	268.9	237.1	189.9	265.8	276.1
72.5°	234.0	209.4	164.2	240.1	252.5
75°	203.2	182.7	151.9	212.4	231.9
77.5°	178.6	156.0	141.6	183.7	207.3
80°	150.9	128.3	128.3	153.9	175.5
82.5°	119.0	100.6	103.6	125.2	140.6
85°	79.0	73.9	69.8	91.3	99.5
87.5°	40.0	41.0	36.9	47.2	48.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)