

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: P292220

Luminaire Tested: **22GR-LD5-43-A-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292220
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-5500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4514.0 lumens
Efficiency: N/A
Efficacy: 124.8 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

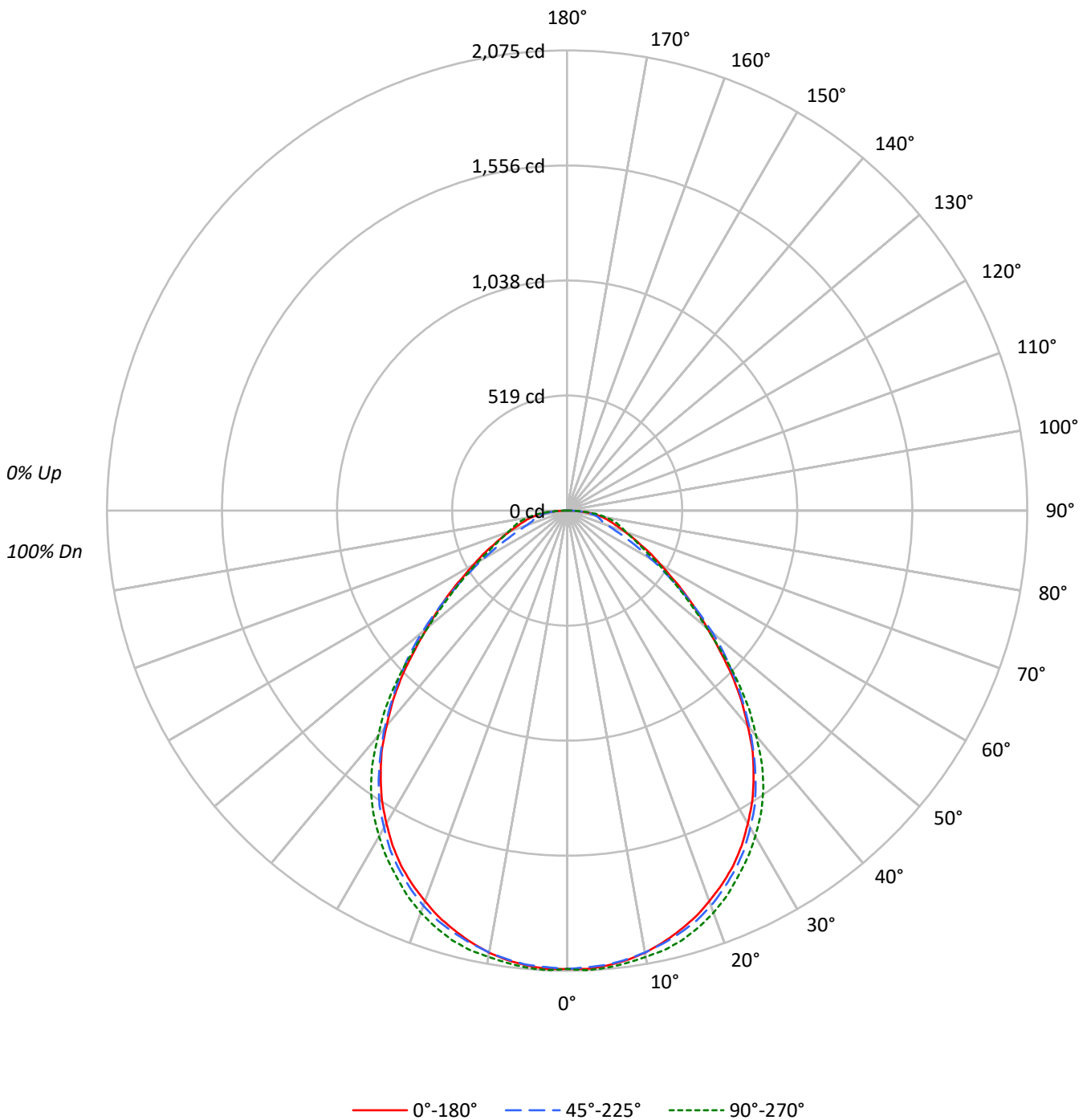
Input Watts (W): 36.177
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5563	5563	5563
5°	5564	5556	5590
10°	5531	5528	5583
15°	5461	5490	5587
20°	5367	5430	5526
25°	5252	5312	5408
30°	5062	5131	5271
35°	4814	4869	5066
40°	4450	4498	4657
45°	3997	4069	4133
50°	3456	3580	3421
55°	3016	2937	2898
60°	2612	2352	2510
65°	2334	1846	2254
70°	2165	1529	2223
75°	2163	1617	2468
80°	2393	2035	2783
85°	2498	2205	3146



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.6	4.3
10°-20°	557.2	12.3
20°-30°	824.0	18.3
30°-40°	929.9	20.6
40°-50°	819.7	18.2
50°-60°	562.3	12.5
60°-70°	331.8	7.4
70°-80°	207.1	4.6
80°-90°	86.3	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°	1576.8	34.9
0°-40°	2506.7	55.5
0°-60°	3888.8	86.1
0°-90°	4514.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4514.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2067	2067	2067	2067	2067	
5°	2060	2056	2057	2064	2069	195
15°	1960	1962	1971	1995	2005	552
25°	1769	1775	1789	1812	1821	812
35°	1465	1478	1482	1518	1542	913
45°	1050	1056	1069	1076	1086	807
55°	643	627	626	605	618	577
65°	367	322	290	335	354	369
75°	208	187	156	217	237	223
85°	81	76	71	94	102	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2067.2	2067.2	2067.2	2067.2	2067.2
2.5°	2068.3	2063.0	2060.9	2069.3	2074.6
5°	2059.9	2055.7	2056.7	2064.1	2069.3
7.5°	2045.2	2042.0	2042.0	2052.5	2057.8
10°	2024.2	2023.1	2023.1	2035.7	2043.1
12.5°	1994.8	1995.8	2000.0	2016.8	2029.4
15°	1960.1	1962.2	1970.6	1994.8	2005.3
17.5°	1922.3	1922.3	1939.1	1958.0	1970.6
20°	1874.0	1877.1	1896.0	1917.0	1929.6
22.5°	1824.6	1829.9	1845.6	1869.8	1881.3
25°	1768.9	1775.2	1788.9	1812.0	1821.4
27.5°	1703.8	1712.2	1726.9	1743.7	1763.7
30°	1629.2	1641.8	1651.3	1674.4	1696.4
32.5°	1553.6	1565.1	1575.6	1599.8	1625.0
35°	1465.4	1478.0	1482.2	1517.9	1542.0
37.5°	1375.0	1380.3	1382.4	1418.1	1444.3
40°	1266.8	1277.3	1280.5	1308.8	1325.6
42.5°	1162.8	1167.0	1173.3	1194.3	1214.3
45°	1050.4	1055.7	1069.3	1075.6	1086.1
47.5°	932.8	948.5	964.3	944.3	945.4
50°	825.6	838.2	855.1	817.2	817.2
52.5°	730.0	736.4	737.4	705.9	712.2
55°	642.9	627.1	626.1	605.0	617.7
57.5°	555.7	534.7	527.3	521.0	535.7
60°	485.3	447.5	437.0	446.4	466.4
62.5°	427.5	379.2	359.2	383.4	401.3
65°	366.6	322.5	289.9	335.1	354.0
67.5°	319.3	277.3	235.3	299.4	313.0
70°	275.2	242.6	194.3	272.1	282.6
72.5°	239.5	214.3	168.1	245.8	258.4
75°	208.0	187.0	155.5	217.4	237.4
77.5°	182.8	159.7	145.0	188.0	212.2
80°	154.4	131.3	131.3	157.6	179.6
82.5°	121.9	102.9	106.1	128.2	143.9
85°	80.9	75.6	71.4	93.5	101.9
87.5°	41.0	42.0	37.8	48.3	49.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)