

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: P291827

Luminaire Tested: **22GR-LD5-43-F1-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291827
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-23)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-43-F1-UNV-L82765-W2A1-U-5000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4483.0 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

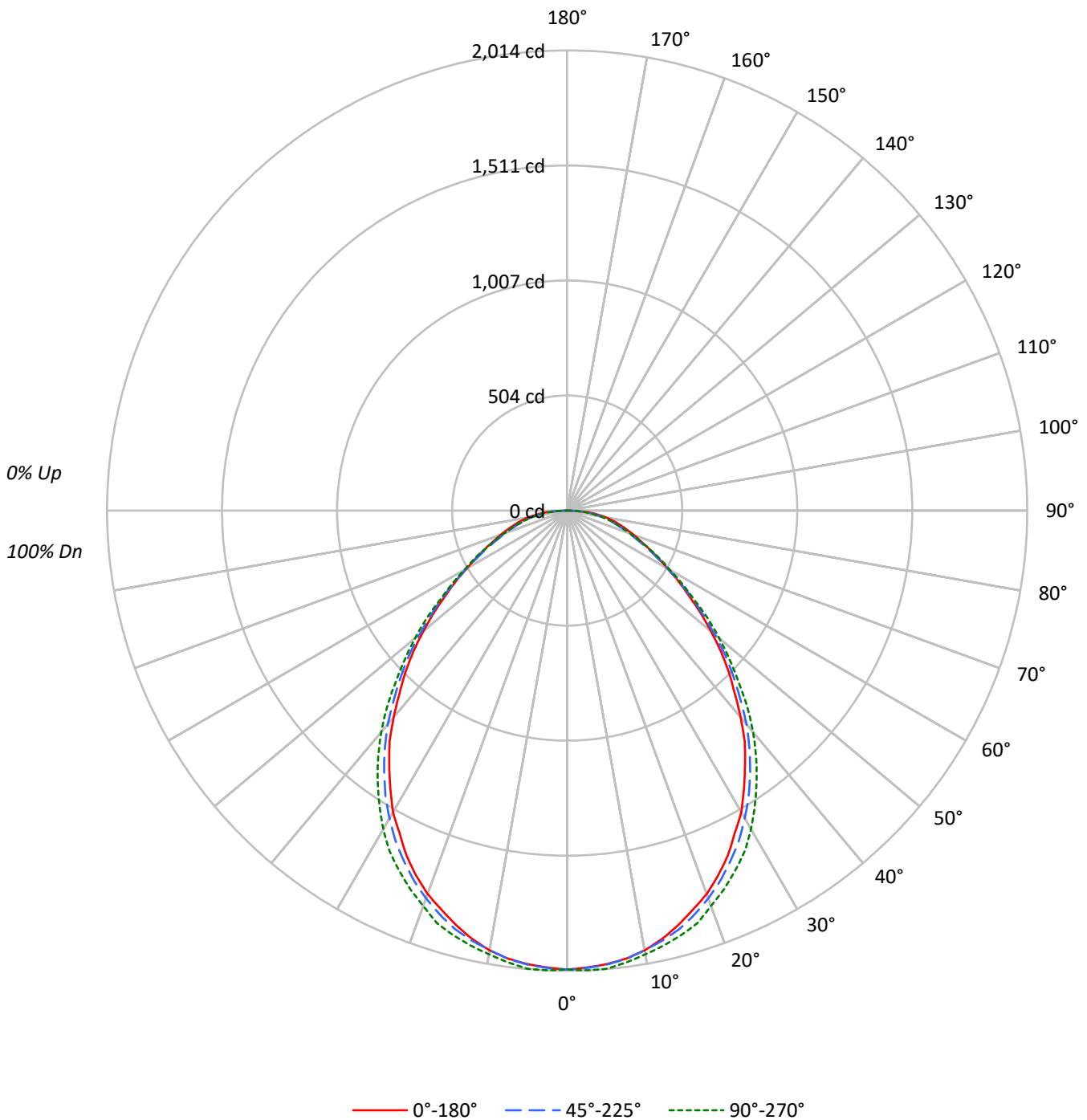
Input Watts (W): 35.991
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	92	90	91	89	87	85					85			
2	101	93	87	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73					73			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63					63			
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50	48					48			
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	55	49	45	43					43			
7	68	55	47	41	66	54	46	41	53	46	41	51	45	40	50	44	40	38					38			
8	63	51	42	37	62	50	42	37	49	42	37	47	41	36	46	40	36	34					34			
9	59	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	35	30	42	35	30	41	35	30	40	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5406	5406	5406
5°	5382	5388	5438
10°	5340	5337	5388
15°	5232	5284	5361
20°	5113	5172	5272
25°	4944	5023	5164
30°	4735	4831	5001
35°	4458	4587	4749
40°	4149	4290	4445
45°	3809	3919	4040
50°	3436	3522	3634
55°	3048	3121	3174
60°	2732	2738	2793
65°	2518	2432	2518
70°	2430	2253	2317
75°	2473	2205	2248
80°	2665	2314	2314
85°	2958	2448	2418



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.5	4.2
10°-20°	534.5	11.9
20°-30°	780.1	17.4
30°-40°	873.4	19.5
40°-50°	794.9	17.7
50°-60°	598.3	13.3
60°-70°	390.4	8.7
70°-80°	234.1	5.2
80°-90°	87.8	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°	1504.1	33.6
0°-40°	2377.5	53.0
0°-60°	3770.6	84.1
0°-90°	4483.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4483.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2009	2009	2009	2009	2009	
5°	1992	1989	1994	2002	2013	189
15°	1878	1880	1897	1912	1924	529
25°	1665	1670	1692	1723	1739	764
35°	1357	1370	1396	1429	1446	848
45°	1001	1011	1030	1051	1062	771
55°	650	659	665	674	676	587
65°	395	391	382	388	395	395
75°	238	230	212	213	216	252
85°	96	93	79	75	78	99
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2008.9	2008.9	2008.9	2008.9	2008.9
2.5°	2001.7	2000.7	2003.8	2008.9	2014.1
5°	1992.5	1989.4	1994.5	2001.7	2013.0
7.5°	1978.0	1978.0	1978.0	1991.4	1993.5
10°	1954.4	1956.4	1953.3	1966.7	1971.9
12.5°	1920.4	1921.4	1927.6	1941.0	1950.2
15°	1878.2	1880.2	1896.7	1912.1	1924.5
17.5°	1830.8	1838.0	1853.4	1878.2	1893.6
20°	1785.5	1793.7	1806.1	1832.9	1841.1
22.5°	1727.8	1737.1	1752.5	1776.2	1793.7
25°	1665.0	1670.2	1691.8	1722.7	1739.1
27.5°	1589.8	1601.2	1627.9	1659.9	1682.5
30°	1523.9	1530.1	1554.8	1591.9	1609.4
32.5°	1440.5	1459.1	1479.7	1512.6	1529.1
35°	1357.1	1369.5	1396.3	1429.2	1445.7
37.5°	1276.8	1284.0	1310.8	1338.6	1359.2
40°	1181.1	1194.4	1221.2	1251.1	1265.5
42.5°	1085.3	1104.9	1122.4	1152.2	1167.7
45°	1000.9	1011.2	1029.7	1051.3	1061.6
47.5°	912.3	917.5	939.1	952.5	963.8
50°	820.7	826.8	841.3	854.6	868.0
52.5°	736.2	741.4	750.6	763.0	776.4
55°	649.7	659.0	665.2	674.4	676.5
57.5°	579.7	578.7	582.8	590.0	597.2
60°	507.6	509.7	508.7	515.9	519.0
62.5°	447.9	446.9	440.7	451.0	459.2
65°	395.4	391.3	382.0	388.2	395.4
67.5°	347.0	344.9	329.5	334.6	340.8
70°	308.9	301.7	286.3	289.3	294.5
72.5°	271.8	263.6	248.2	249.2	252.3
75°	237.9	229.6	212.1	213.1	216.2
77.5°	205.9	195.6	180.2	178.1	180.2
80°	172.0	162.7	149.3	143.1	149.3
82.5°	136.9	131.8	116.4	110.2	112.2
85°	95.8	92.7	79.3	75.2	78.3
87.5°	44.3	47.4	40.2	37.1	38.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)