

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: P292124

Luminaire Tested: **22GR-LD5-43-F125-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292124
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33295)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-43-F125-UNV-L92765-W2A1-U-6500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4132.0 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

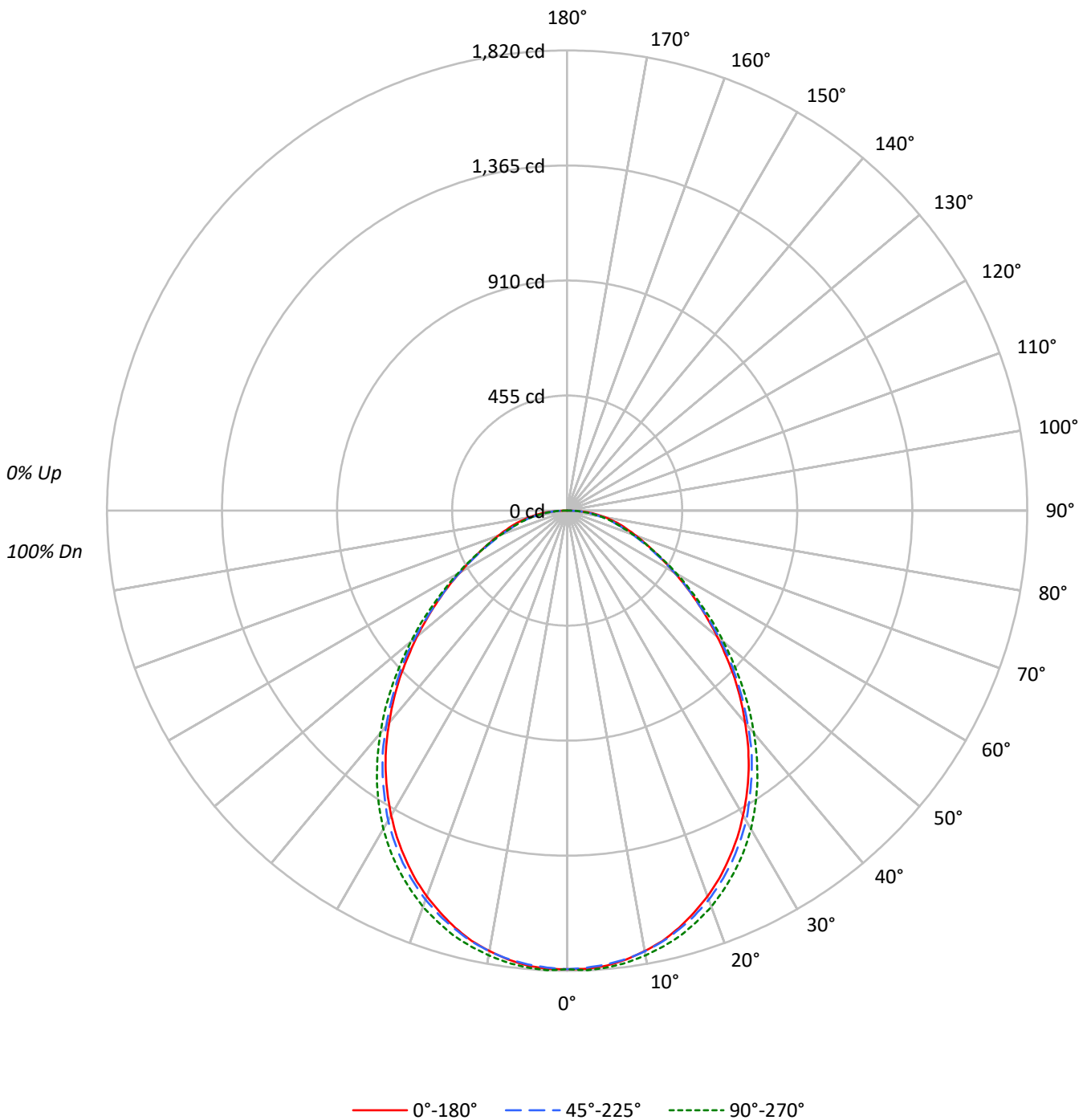
Input Watts (W): 36.828
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	97	107	103	99	96	99	96	93	95	92	90	91	89	87					85				
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75					73				
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65					62				
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56					54				
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50					48				
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44					42				
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40					38				
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36					34				
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33					31				
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30					28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4881	4881	4881
5°	4879	4866	4900
10°	4834	4836	4881
15°	4760	4776	4845
20°	4648	4690	4775
25°	4504	4566	4666
30°	4326	4400	4516
35°	4113	4180	4309
40°	3846	3910	4038
45°	3561	3616	3722
50°	3243	3295	3380
55°	2928	2937	3023
60°	2626	2637	2699
65°	2393	2344	2399
70°	2278	2150	2187
75°	2293	2073	2084
80°	2377	2095	2080
85°	2606	2220	2103



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.4	4.1
10°-20°	484.1	11.7
20°-30°	708.6	17.1
30°-40°	796.7	19.3
40°-50°	734.7	17.8
50°-60°	566.3	13.7
60°-70°	373.6	9.0
70°-80°	217.5	5.3
80°-90°	79.2	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°	1364.1	33.0
0°-40°	2160.7	52.3
0°-60°	3461.7	83.8
0°-90°	4132.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4132.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1814	1814	1814	1814	1814	
5°	1806	1802	1802	1810	1814	171
15°	1708	1708	1714	1730	1739	481
25°	1517	1524	1538	1559	1571	698
35°	1252	1258	1272	1298	1312	781
45°	936	937	950	969	978	721
55°	624	623	626	637	644	560
65°	376	374	368	371	377	377
75°	220	211	199	196	200	232
85°	84	83	72	66	68	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1814.0	1814.0	1814.0	1814.0	1814.0
2.5°	1814.0	1810.1	1809.2	1815.9	1819.7
5°	1806.3	1802.5	1801.5	1810.1	1814.0
7.5°	1791.0	1788.1	1789.0	1798.6	1803.4
10°	1768.9	1767.9	1769.9	1780.4	1786.2
12.5°	1743.0	1742.1	1745.9	1757.4	1765.1
15°	1708.5	1708.5	1714.3	1729.6	1739.2
17.5°	1667.3	1670.2	1678.8	1694.1	1704.7
20°	1623.2	1626.0	1637.6	1654.8	1667.3
22.5°	1574.3	1578.1	1589.6	1610.7	1621.3
25°	1516.8	1524.4	1537.8	1558.9	1571.4
27.5°	1457.3	1465.9	1478.4	1504.3	1515.8
30°	1392.1	1397.9	1416.1	1440.1	1453.5
32.5°	1323.1	1328.8	1344.2	1372.9	1384.4
35°	1252.1	1257.9	1272.3	1298.2	1311.6
37.5°	1175.4	1180.2	1197.5	1217.6	1232.0
40°	1094.9	1101.6	1113.1	1137.1	1149.5
42.5°	1016.3	1019.2	1031.6	1055.6	1065.2
45°	935.7	936.7	950.1	969.3	977.9
47.5°	852.3	854.3	870.5	882.1	890.7
50°	774.7	775.6	787.1	797.7	807.3
52.5°	697.0	697.0	702.8	714.3	726.7
55°	624.1	623.2	626.1	636.6	644.3
57.5°	555.1	554.2	558.0	564.7	570.5
60°	488.0	486.1	489.9	493.8	501.4
62.5°	428.6	430.5	425.7	431.4	437.2
65°	375.8	373.9	368.2	371.0	376.8
67.5°	330.8	327.9	318.3	320.2	326.9
70°	289.5	283.8	273.2	273.2	278.0
72.5°	252.2	246.4	233.0	233.9	235.9
75°	220.5	210.9	199.4	195.6	200.4
77.5°	186.0	178.3	167.8	164.9	166.8
80°	153.4	147.6	135.2	131.3	134.2
82.5°	121.8	117.0	102.6	99.7	100.7
85°	84.4	83.4	71.9	66.2	68.1
87.5°	45.1	46.0	37.4	33.6	35.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)