

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: P292299

Luminaire Tested: **22GR-LD5-36-A-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292299
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-LD5-36-A-UNV-L92765-W2A1-U-5000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3334.0 lumens
Efficiency: N/A
Efficacy: 116.0 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

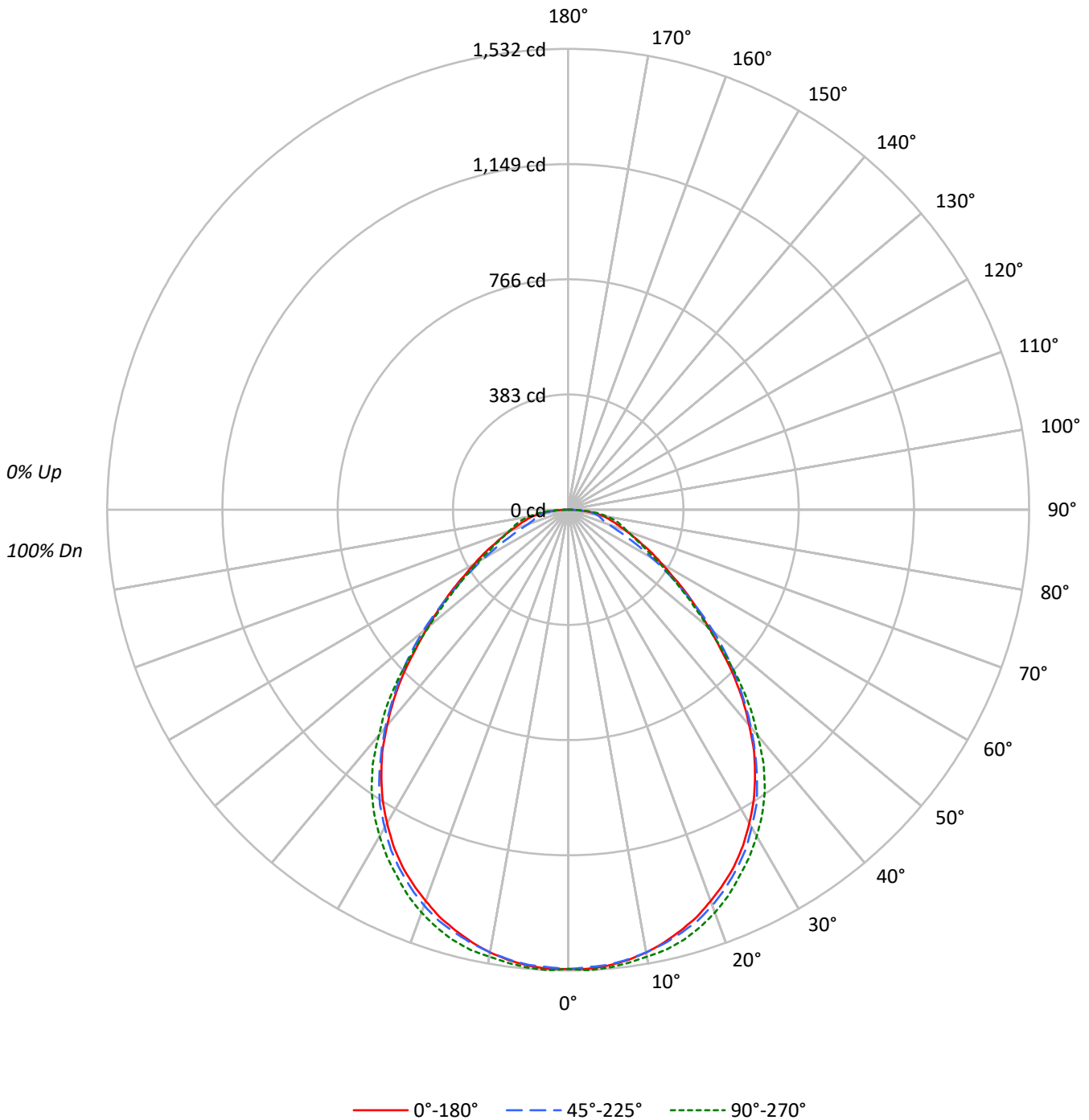
Input Watts (W): 28.737
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4109	4109	4109
5°	4110	4103	4129
10°	4085	4083	4123
15°	4033	4055	4126
20°	3964	4010	4081
25°	3879	3923	3994
30°	3739	3790	3893
35°	3555	3596	3741
40°	3287	3322	3439
45°	2952	3006	3053
50°	2553	2644	2527
55°	2228	2169	2140
60°	1929	1737	1854
65°	1724	1363	1665
70°	1600	1129	1642
75°	1597	1194	1823
80°	1767	1503	2056
85°	1843	1630	2325



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.5	4.3
10°-20°	411.5	12.3
20°-30°	608.6	18.3
30°-40°	686.8	20.6
40°-50°	605.4	18.2
50°-60°	415.3	12.5
60°-70°	245.1	7.4
70°-80°	152.9	4.6
80°-90°	63.8	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°	1164.6	34.9
0°-40°	1851.4	55.5
0°-60°	2872.2	86.1
0°-90°	3334.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3334.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1527	1527	1527	1527	1527	
5°	1521	1518	1519	1524	1528	144
15°	1448	1449	1456	1473	1481	408
25°	1306	1311	1321	1338	1345	600
35°	1082	1092	1095	1121	1139	674
45°	776	780	790	794	802	596
55°	475	463	462	447	456	426
65°	271	238	214	248	262	273
75°	154	138	115	161	175	165
85°	60	56	53	69	75	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1526.9	1526.9	1526.9	1526.9	1526.9
2.5°	1527.6	1523.7	1522.2	1528.4	1532.3
5°	1521.4	1518.3	1519.1	1524.5	1528.4
7.5°	1510.6	1508.2	1508.2	1516.0	1519.9
10°	1495.0	1494.3	1494.3	1503.6	1509.0
12.5°	1473.3	1474.1	1477.2	1489.6	1498.9
15°	1447.7	1449.3	1455.5	1473.3	1481.1
17.5°	1419.8	1419.8	1432.2	1446.2	1455.5
20°	1384.1	1386.4	1400.4	1415.9	1425.2
22.5°	1347.6	1351.5	1363.1	1381.0	1389.5
25°	1306.5	1311.2	1321.3	1338.3	1345.3
27.5°	1258.4	1264.6	1275.5	1287.9	1302.6
30°	1203.3	1212.6	1219.6	1236.7	1253.0
32.5°	1147.5	1156.0	1163.8	1181.6	1200.2
35°	1082.3	1091.6	1094.7	1121.1	1138.9
37.5°	1015.6	1019.5	1021.0	1047.4	1066.8
40°	935.7	943.4	945.7	966.7	979.1
42.5°	858.9	862.0	866.6	882.1	896.9
45°	775.8	779.7	789.8	794.5	802.2
47.5°	688.9	700.6	712.2	697.5	698.3
50°	609.8	619.1	631.5	603.6	603.6
52.5°	539.2	543.9	544.6	521.4	526.0
55°	474.8	463.2	462.4	446.9	456.2
57.5°	410.4	394.9	389.5	384.8	395.7
60°	358.4	330.5	322.7	329.7	344.5
62.5°	315.8	280.1	265.3	283.2	296.4
65°	270.8	238.2	214.1	247.5	261.5
67.5°	235.9	204.8	173.8	221.1	231.2
70°	203.3	179.2	143.5	200.9	208.7
72.5°	176.9	158.3	124.1	181.5	190.9
75°	153.6	138.1	114.8	160.6	175.3
77.5°	135.0	117.9	107.1	138.9	156.7
80°	114.0	97.0	97.0	116.4	132.7
82.5°	90.0	76.0	78.4	94.7	106.3
85°	59.7	55.9	52.8	69.0	75.3
87.5°	30.3	31.0	27.9	35.7	36.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)