

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: P292198

Luminaire Tested: **22GR-LD5-36-A-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292198
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-L82765-W2A1-U-3500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3523.0 lumens
Efficiency: N/A
Efficacy: 125.0 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

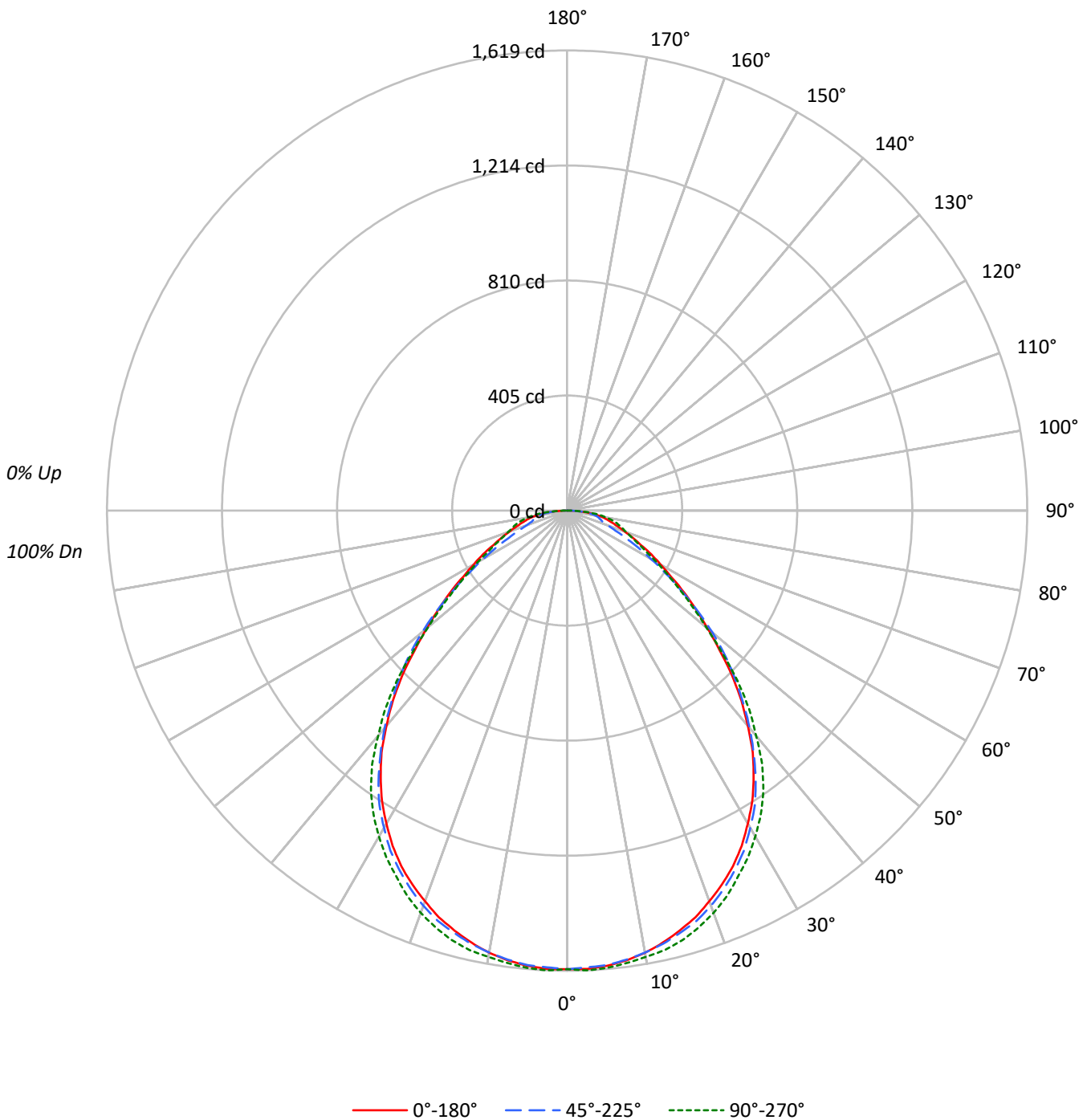
Input Watts (W): 28.179
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4342	4342	4342
5°	4343	4336	4363
10°	4317	4315	4357
15°	4262	4285	4360
20°	4188	4238	4313
25°	4099	4146	4221
30°	3951	4005	4114
35°	3757	3800	3954
40°	3473	3511	3634
45°	3120	3176	3226
50°	2698	2794	2670
55°	2354	2292	2262
60°	2039	1835	1959
65°	1822	1441	1759
70°	1690	1194	1735
75°	1687	1261	1927
80°	1867	1588	2173
85°	1948	1720	2455



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.7	4.3
10°-20°	434.8	12.3
20°-30°	643.1	18.3
30°-40°	725.7	20.6
40°-50°	639.8	18.2
50°-60°	438.9	12.5
60°-70°	259.0	7.4
70°-80°	161.6	4.6
80°-90°	67.4	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°	1230.7	34.9
0°-40°	1956.4	55.5
0°-60°	3035.0	86.1
0°-90°	3523.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3523.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1613	1613	1613	1613	1613	
5°	1608	1604	1605	1611	1615	153
15°	1530	1531	1538	1557	1565	431
25°	1381	1386	1396	1414	1422	634
35°	1144	1154	1157	1185	1204	713
45°	820	824	835	840	848	630
55°	502	489	489	472	482	450
65°	286	252	226	262	276	288
75°	162	146	121	170	185	174
85°	63	59	56	73	80	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1613.4	1613.4	1613.4	1613.4	1613.4
2.5°	1614.2	1610.1	1608.5	1615.0	1619.1
5°	1607.7	1604.4	1605.2	1610.9	1615.0
7.5°	1596.2	1593.7	1593.7	1601.9	1606.0
10°	1579.8	1579.0	1579.0	1588.8	1594.6
12.5°	1556.8	1557.7	1560.9	1574.1	1583.9
15°	1529.8	1531.4	1538.0	1556.8	1565.0
17.5°	1500.3	1500.3	1513.4	1528.1	1538.0
20°	1462.6	1465.0	1479.8	1496.2	1506.0
22.5°	1424.0	1428.1	1440.4	1459.3	1468.3
25°	1380.6	1385.5	1396.2	1414.2	1421.6
27.5°	1329.7	1336.3	1347.8	1360.9	1376.5
30°	1271.5	1281.4	1288.8	1306.8	1324.0
32.5°	1212.5	1221.5	1229.7	1248.6	1268.3
35°	1143.6	1153.5	1156.8	1184.6	1203.5
37.5°	1073.1	1077.2	1078.9	1106.8	1127.3
40°	988.7	996.9	999.4	1021.5	1034.6
42.5°	907.5	910.8	915.7	932.1	947.7
45°	819.8	823.9	834.6	839.5	847.7
47.5°	728.0	740.3	752.6	737.0	737.8
50°	644.4	654.2	667.3	637.8	637.8
52.5°	569.8	574.7	575.5	550.9	555.8
55°	501.7	489.4	488.6	472.2	482.1
57.5°	433.7	417.3	411.5	406.6	418.1
60°	378.8	349.2	341.0	348.4	364.0
62.5°	333.7	296.0	280.4	299.2	313.2
65°	286.1	251.7	226.3	261.5	276.3
67.5°	249.2	216.4	183.6	233.6	244.3
70°	214.8	189.4	151.7	212.3	220.5
72.5°	186.9	167.2	131.2	191.8	201.7
75°	162.3	145.9	121.3	169.7	185.3
77.5°	142.6	124.6	113.1	146.7	165.6
80°	120.5	102.5	102.5	123.0	140.2
82.5°	95.1	80.3	82.8	100.0	112.3
85°	63.1	59.0	55.7	73.0	79.5
87.5°	32.0	32.8	29.5	37.7	38.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)