

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: P292298

Luminaire Tested: **22GR-LD5-36-A-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292298
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-4500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3268.0 lumens
Efficiency: N/A
Efficacy: 114.1 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

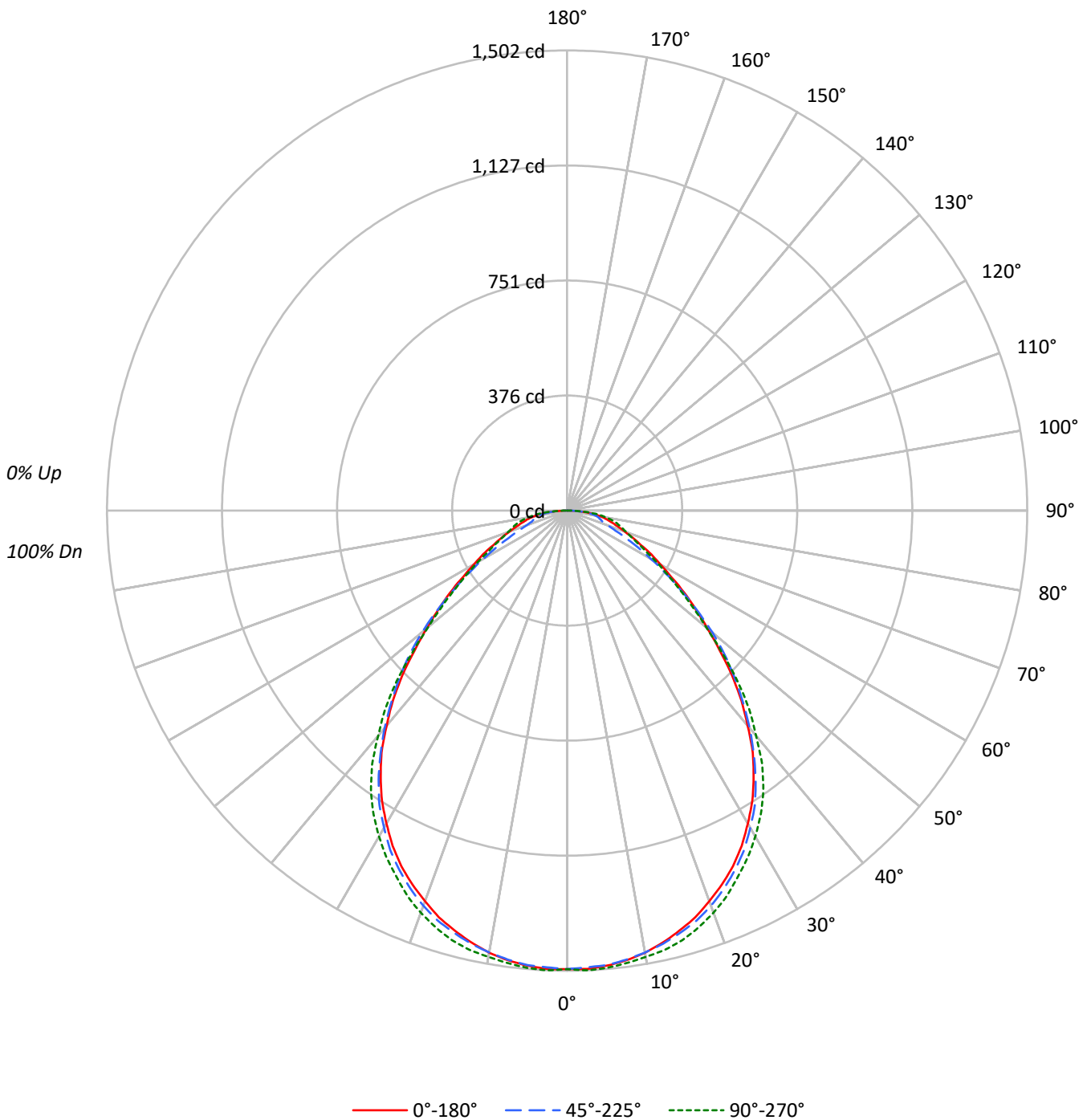
Input Watts (W): 28.644
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4027	4027	4027
5°	4028	4022	4047
10°	4004	4002	4042
15°	3953	3975	4045
20°	3885	3931	4001
25°	3802	3845	3915
30°	3665	3715	3816
35°	3485	3525	3667
40°	3222	3256	3371
45°	2894	2946	2992
50°	2502	2591	2477
55°	2183	2126	2098
60°	1891	1703	1817
65°	1690	1337	1632
70°	1567	1107	1610
75°	1566	1171	1787
80°	1733	1474	2015
85°	1809	1596	2279



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.6	4.3
10°-20°	403.4	12.3
20°-30°	596.6	18.3
30°-40°	673.2	20.6
40°-50°	593.5	18.2
50°-60°	407.1	12.5
60°-70°	240.2	7.4
70°-80°	149.9	4.6
80°-90°	62.5	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°	1141.6	34.9
0°-40°	1814.8	55.5
0°-60°	2815.4	86.1
0°-90°	3268.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3268.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1497	1497	1497	1497	1497	
5°	1491	1488	1489	1494	1498	142
15°	1419	1421	1427	1444	1452	400
25°	1281	1285	1295	1312	1319	588
35°	1061	1070	1073	1099	1116	661
45°	760	764	774	779	786	584
55°	465	454	453	438	447	417
65°	265	234	210	243	256	267
75°	151	135	113	157	172	161
85°	59	55	52	68	74	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1496.6	1496.6	1496.6	1496.6	1496.6
2.5°	1497.4	1493.6	1492.1	1498.1	1501.9
5°	1491.3	1488.3	1489.0	1494.3	1498.1
7.5°	1480.7	1478.4	1478.4	1486.0	1489.8
10°	1465.4	1464.7	1464.7	1473.8	1479.1
12.5°	1444.2	1444.9	1448.0	1460.1	1469.2
15°	1419.1	1420.6	1426.7	1444.2	1451.8
17.5°	1391.7	1391.7	1403.8	1417.5	1426.7
20°	1356.7	1359.0	1372.7	1387.9	1397.0
22.5°	1321.0	1324.8	1336.2	1353.7	1362.0
25°	1280.6	1285.2	1295.1	1311.8	1318.7
27.5°	1233.5	1239.6	1250.2	1262.4	1276.8
30°	1179.5	1188.6	1195.5	1212.2	1228.2
32.5°	1124.8	1133.1	1140.7	1158.2	1176.5
35°	1060.9	1070.0	1073.0	1098.9	1116.4
37.5°	995.5	999.3	1000.8	1026.6	1045.7
40°	917.1	924.7	927.0	947.6	959.7
42.5°	841.9	844.9	849.5	864.7	879.1
45°	760.5	764.3	774.2	778.7	786.3
47.5°	675.3	686.7	698.1	683.7	684.4
50°	597.7	606.9	619.0	591.7	591.7
52.5°	528.5	533.1	533.9	511.0	515.6
55°	465.4	454.0	453.2	438.0	447.2
57.5°	402.3	387.1	381.8	377.2	387.8
60°	351.3	324.0	316.4	323.2	337.7
62.5°	309.5	274.5	260.1	277.6	290.5
65°	265.4	233.5	209.9	242.6	256.3
67.5°	231.2	200.8	170.3	216.7	226.6
70°	199.2	175.7	140.7	197.0	204.6
72.5°	173.4	155.1	121.7	178.0	187.1
75°	150.6	135.4	112.6	157.4	171.9
77.5°	132.3	115.6	104.9	136.1	153.6
80°	111.8	95.1	95.1	114.1	130.0
82.5°	88.2	74.5	76.8	92.8	104.2
85°	58.6	54.8	51.7	67.7	73.8
87.5°	29.7	30.4	27.4	35.0	35.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)