

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: P292147

Luminaire Tested: **22GR-LD5-36-A-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292147
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-L83050-W2A1-U-4000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3788.0 lumens
Efficiency: N/A
Efficacy: 131.8 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

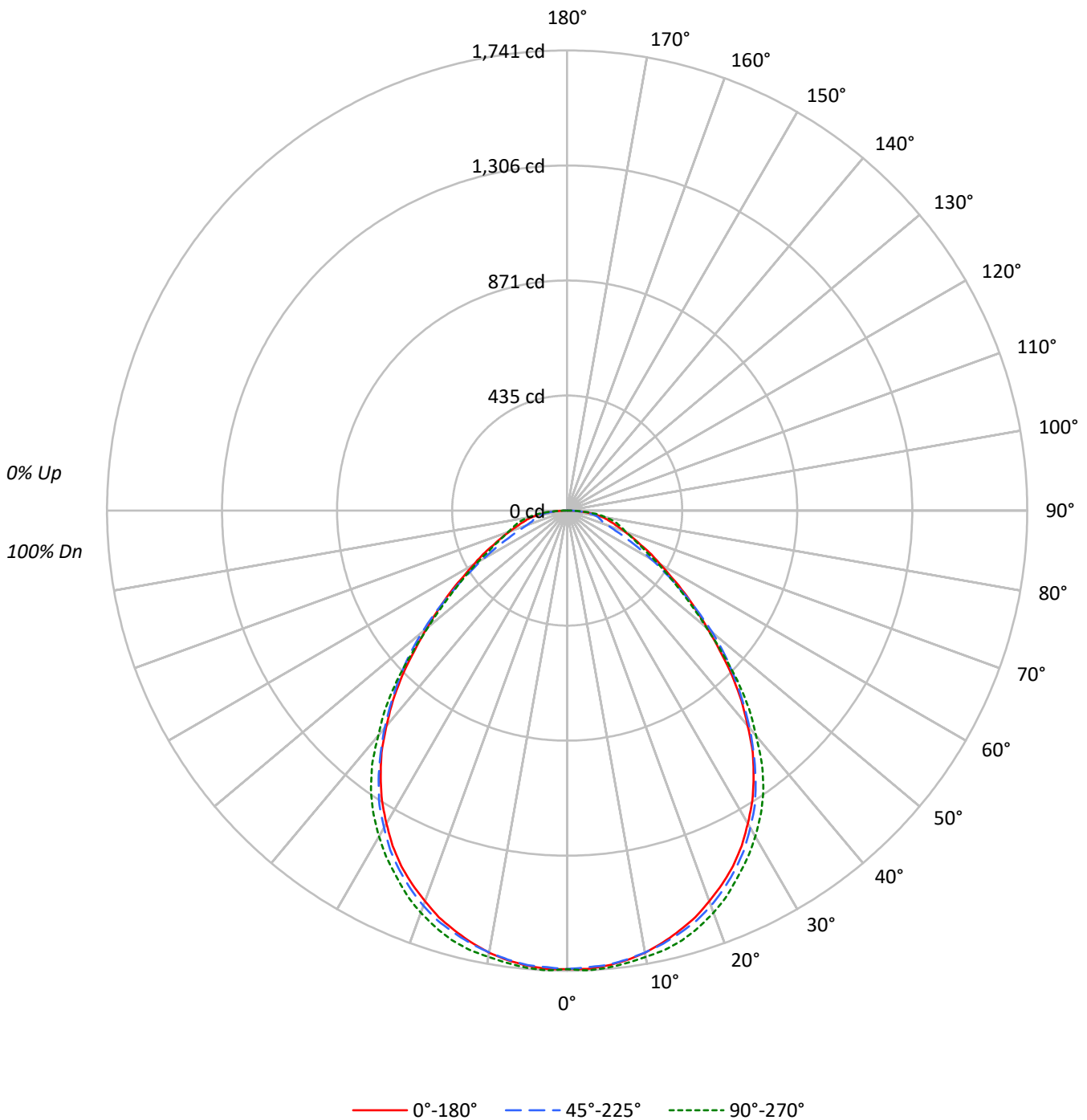
Input Watts (W): 28.737
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4668	4668	4668
5°	4669	4662	4691
10°	4641	4639	4685
15°	4583	4607	4688
20°	4503	4556	4637
25°	4407	4457	4538
30°	4248	4306	4424
35°	4040	4086	4251
40°	3734	3775	3908
45°	3355	3415	3469
50°	2900	3004	2871
55°	2531	2465	2432
60°	2192	1974	2106
65°	1959	1549	1892
70°	1817	1283	1865
75°	1814	1357	2071
80°	2008	1708	2335
85°	2096	1849	2640



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.2	4.3
10°-20°	467.6	12.3
20°-30°	691.5	18.3
30°-40°	780.3	20.6
40°-50°	687.9	18.2
50°-60°	471.9	12.5
60°-70°	278.5	7.4
70°-80°	173.8	4.6
80°-90°	72.5	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°	1323.2	34.9
0°-40°	2103.6	55.5
0°-60°	3263.3	86.1
0°-90°	3788.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3788.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1735	1735	1735	1735	1735	
5°	1729	1725	1726	1732	1736	164
15°	1645	1647	1654	1674	1683	464
25°	1484	1490	1501	1521	1528	682
35°	1230	1240	1244	1274	1294	766
45°	882	886	897	903	912	677
55°	540	526	525	508	518	484
65°	308	271	243	281	297	310
75°	174	157	130	182	199	187
85°	68	64	60	78	86	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1734.8	1734.8	1734.8	1734.8	1734.8
2.5°	1735.6	1731.2	1729.5	1736.5	1740.9
5°	1728.6	1725.1	1726.0	1732.1	1736.5
7.5°	1716.3	1713.6	1713.6	1722.4	1726.8
10°	1698.6	1697.7	1697.7	1708.3	1714.5
12.5°	1673.9	1674.8	1678.4	1692.5	1703.0
15°	1644.9	1646.6	1653.7	1673.9	1682.8
17.5°	1613.1	1613.1	1627.2	1643.1	1653.7
20°	1572.6	1575.2	1591.1	1608.7	1619.3
22.5°	1531.1	1535.6	1548.8	1569.0	1578.7
25°	1484.4	1489.7	1501.2	1520.6	1528.5
27.5°	1429.8	1436.8	1449.2	1463.3	1480.0
30°	1367.2	1377.8	1385.7	1405.1	1423.6
32.5°	1303.7	1313.4	1322.2	1342.5	1363.7
35°	1229.7	1240.3	1243.8	1273.7	1294.0
37.5°	1153.9	1158.3	1160.0	1190.0	1212.0
40°	1063.1	1071.9	1074.5	1098.3	1112.4
42.5°	975.8	979.3	984.6	1002.3	1019.0
45°	881.5	885.9	897.4	902.6	911.5
47.5°	782.8	796.0	809.2	792.5	793.3
50°	692.8	703.4	717.5	685.8	685.8
52.5°	612.6	617.9	618.8	592.4	597.6
55°	539.5	526.2	525.4	507.7	518.3
57.5°	466.3	448.7	442.5	437.2	449.6
60°	407.2	375.5	366.7	374.6	391.4
62.5°	358.8	318.2	301.5	321.7	336.7
65°	307.6	270.6	243.3	281.2	297.1
67.5°	268.0	232.7	197.5	251.2	262.7
70°	230.9	203.6	163.1	228.3	237.1
72.5°	201.0	179.8	141.0	206.3	216.8
75°	174.5	156.9	130.5	182.5	199.2
77.5°	153.4	134.0	121.6	157.8	178.1
80°	129.6	110.2	110.2	132.2	150.7
82.5°	102.3	86.4	89.0	107.5	120.8
85°	67.9	63.5	59.9	78.5	85.5
87.5°	34.4	35.3	31.7	40.5	41.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)