

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: P292316

Luminaire Tested: **22GR-LD5-43-A-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292316
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-LD5-43-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: 3933.0 lumens
Efficiency: N/A
Efficacy: 109.8 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

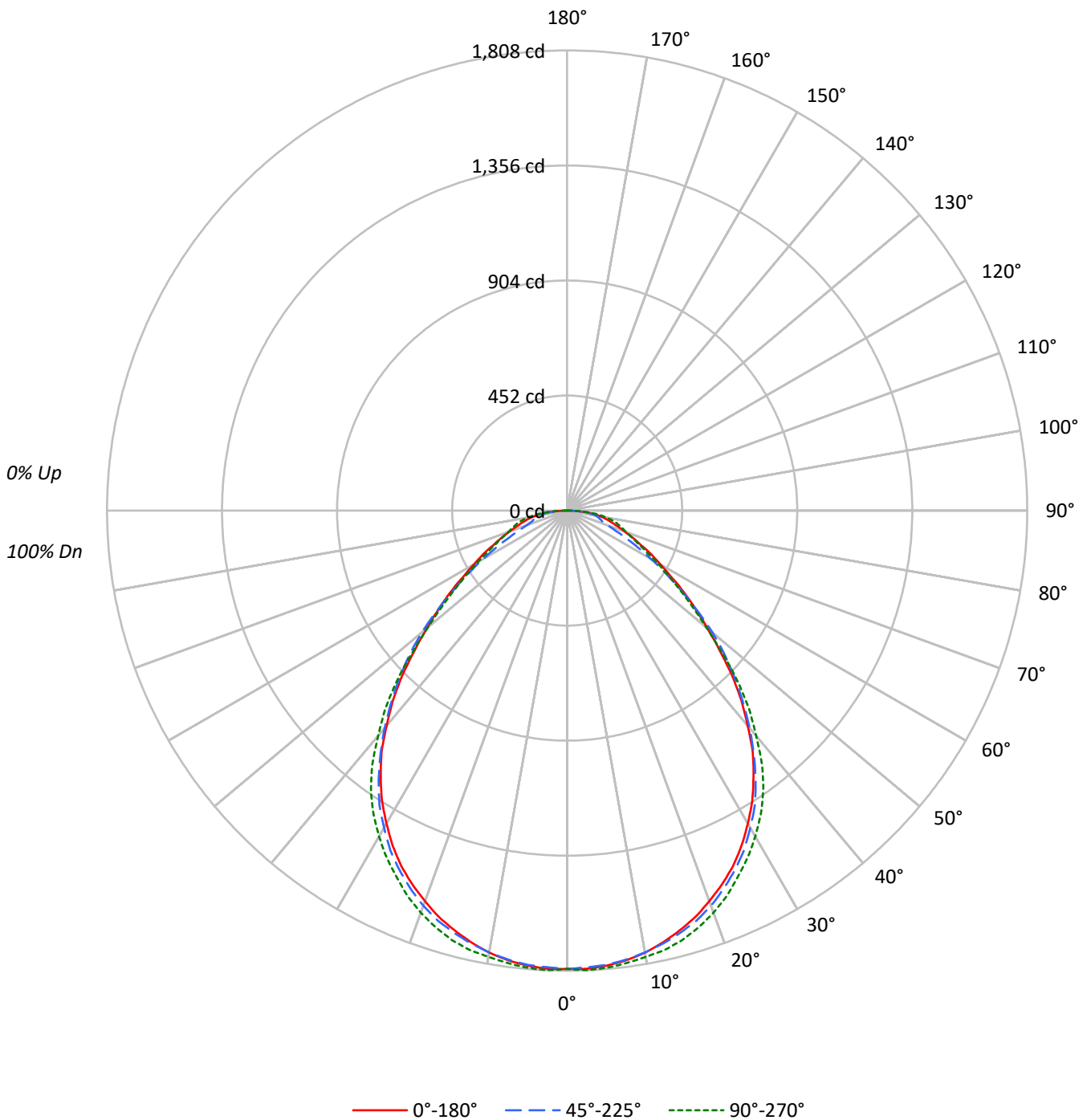
Input Watts (W): 35.805
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4847	4847	4847
5°	4848	4841	4870
10°	4819	4817	4864
15°	4758	4783	4868
20°	4676	4731	4815
25°	4576	4628	4712
30°	4411	4470	4593
35°	4194	4242	4414
40°	3877	3919	4057
45°	3483	3546	3601
50°	3012	3119	2981
55°	2628	2559	2525
60°	2275	2049	2187
65°	2034	1608	1964
70°	1887	1332	1937
75°	1884	1409	2150
80°	2084	1773	2425
85°	2177	1920	2742



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.4	4.3
10°-20°	485.4	12.3
20°-30°	718.0	18.3
30°-40°	810.2	20.6
40°-50°	714.2	18.2
50°-60°	490.0	12.5
60°-70°	289.1	7.4
70°-80°	180.4	4.6
80°-90°	75.2	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°	1373.9	34.9
0°-40°	2184.1	55.5
0°-60°	3388.2	86.1
0°-90°	3933.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3933.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1801	1801	1801	1801	1801	
5°	1795	1791	1792	1798	1803	170
15°	1708	1710	1717	1738	1747	481
25°	1541	1547	1559	1579	1587	708
35°	1277	1288	1291	1322	1344	796
45°	915	920	932	937	946	703
55°	560	546	546	527	538	502
65°	319	281	253	292	308	322
75°	181	163	136	190	207	194
85°	70	66	62	82	89	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1801.2	1801.2	1801.2	1801.2	1801.2
2.5°	1802.1	1797.5	1795.7	1803.0	1807.6
5°	1794.8	1791.1	1792.0	1798.4	1803.0
7.5°	1782.0	1779.2	1779.2	1788.4	1792.9
10°	1763.6	1762.7	1762.7	1773.7	1780.1
12.5°	1738.0	1738.9	1742.6	1757.2	1768.2
15°	1707.8	1709.6	1717.0	1738.0	1747.2
17.5°	1674.9	1674.9	1689.5	1706.0	1717.0
20°	1632.8	1635.5	1652.0	1670.3	1681.3
22.5°	1589.8	1594.3	1608.1	1629.1	1639.2
25°	1541.2	1546.7	1558.6	1578.8	1587.0
27.5°	1484.5	1491.8	1504.6	1519.3	1536.7
30°	1419.5	1430.5	1438.7	1458.9	1478.1
32.5°	1353.6	1363.7	1372.8	1393.9	1415.9
35°	1276.7	1287.7	1291.4	1322.5	1343.6
37.5°	1198.0	1202.6	1204.4	1235.6	1258.4
40°	1103.8	1112.9	1115.7	1140.4	1155.0
42.5°	1013.2	1016.8	1022.3	1040.6	1058.0
45°	915.2	919.8	931.7	937.2	946.3
47.5°	812.7	826.5	840.2	822.8	823.7
50°	719.4	730.4	745.0	712.0	712.0
52.5°	636.1	641.6	642.5	615.0	620.5
55°	560.1	546.4	545.5	527.2	538.2
57.5°	484.2	465.9	459.4	454.0	466.8
60°	422.8	389.9	380.7	389.0	406.4
62.5°	372.5	330.4	313.0	334.1	349.6
65°	319.4	281.0	252.6	292.0	308.4
67.5°	278.2	241.6	205.0	260.8	272.7
70°	239.8	211.4	169.3	237.0	246.2
72.5°	208.7	186.7	146.4	214.2	225.1
75°	181.2	162.9	135.5	189.5	206.8
77.5°	159.2	139.1	126.3	163.8	184.9
80°	134.5	114.4	114.4	137.3	156.5
82.5°	106.2	89.7	92.4	111.7	125.4
85°	70.5	65.9	62.2	81.5	88.8
87.5°	35.7	36.6	32.9	42.1	43.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)