

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: P292256

Luminaire Tested: **22GR-LD5-43-A-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292256
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-L93050-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: 4055.0 lumens
Efficiency: N/A
Efficacy: 110.7 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

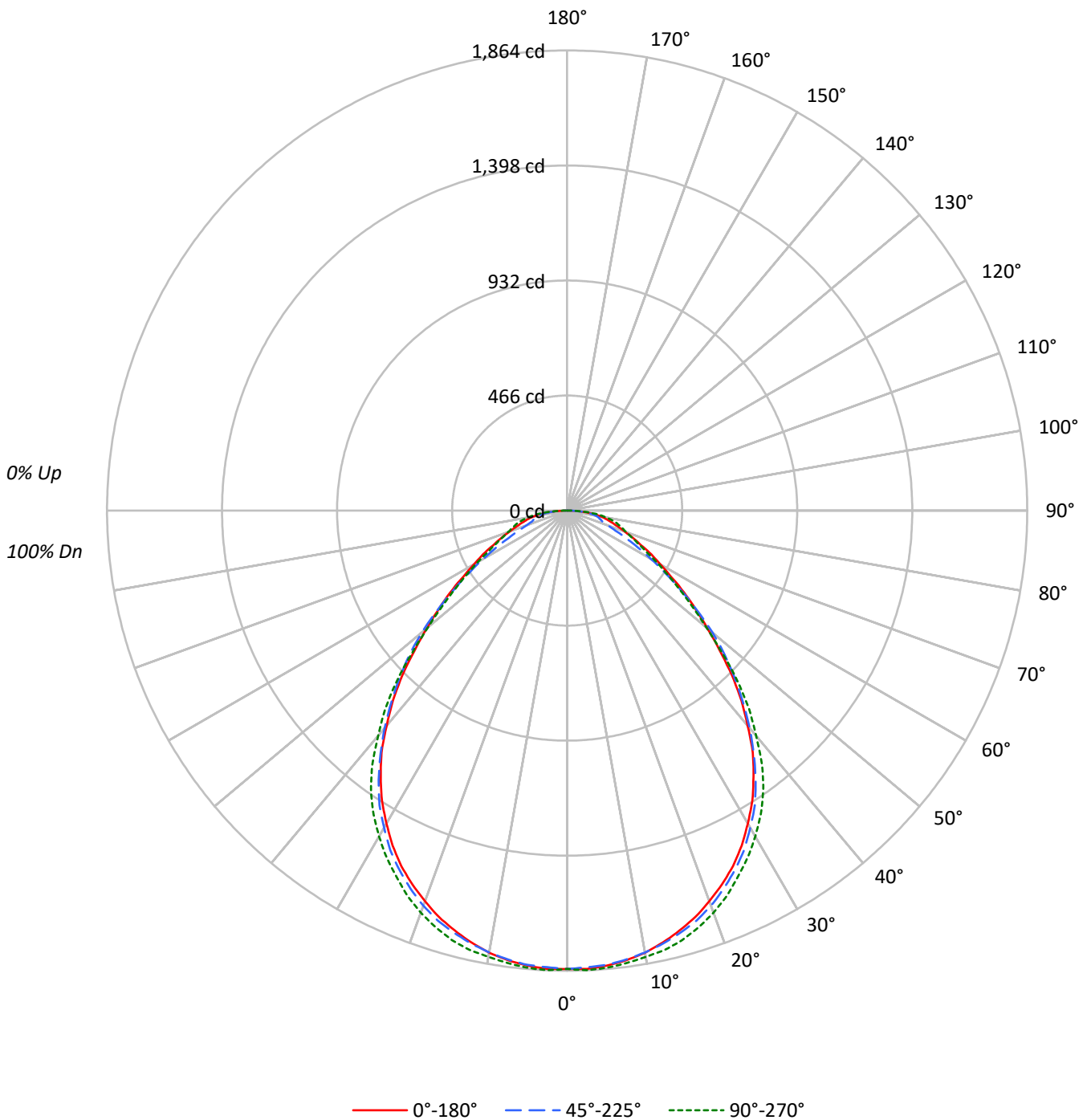
Input Watts (W): 36.642
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4997	4997	4997
5°	4998	4991	5021
10°	4969	4966	5015
15°	4905	4932	5019
20°	4821	4877	4964
25°	4718	4771	4858
30°	4548	4609	4735
35°	4324	4374	4550
40°	3998	4041	4183
45°	3591	3656	3713
50°	3105	3216	3073
55°	2709	2639	2603
60°	2347	2112	2255
65°	2097	1658	2025
70°	1945	1374	1997
75°	1942	1452	2218
80°	2149	1829	2501
85°	2245	1982	2825



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.7	4.3
10°-20°	500.5	12.3
20°-30°	740.2	18.3
30°-40°	835.3	20.6
40°-50°	736.4	18.2
50°-60°	505.1	12.5
60°-70°	298.1	7.4
70°-80°	186.0	4.6
80°-90°	77.6	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°	1416.5	34.9
0°-40°	2251.8	55.5
0°-60°	3493.3	86.1
0°-90°	4055.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4055.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1857	1857	1857	1857	1857	
5°	1850	1847	1848	1854	1859	176
15°	1761	1763	1770	1792	1801	496
25°	1589	1595	1607	1628	1636	730
35°	1316	1328	1331	1364	1385	820
45°	944	948	961	966	976	725
55°	578	563	562	544	555	518
65°	329	290	260	301	318	332
75°	187	168	140	195	213	200
85°	73	68	64	84	92	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1857.0	1857.0	1857.0	1857.0	1857.0
2.5°	1858.0	1853.3	1851.4	1858.9	1863.6
5°	1850.4	1846.7	1847.6	1854.2	1858.9
7.5°	1837.2	1834.4	1834.4	1843.8	1848.6
10°	1818.4	1817.4	1817.4	1828.7	1835.3
12.5°	1791.9	1792.9	1796.7	1811.7	1823.1
15°	1760.8	1762.7	1770.2	1791.9	1801.4
17.5°	1726.8	1726.8	1741.9	1758.9	1770.2
20°	1683.4	1686.2	1703.2	1722.1	1733.4
22.5°	1639.1	1643.8	1657.9	1679.6	1690.0
25°	1589.1	1594.7	1607.0	1627.7	1636.2
27.5°	1530.6	1538.1	1551.3	1566.4	1584.3
30°	1463.6	1474.9	1483.4	1504.1	1523.9
32.5°	1395.6	1406.0	1415.4	1437.1	1459.8
35°	1316.3	1327.7	1331.4	1363.5	1385.2
37.5°	1235.2	1239.9	1241.8	1273.9	1297.5
40°	1138.0	1147.4	1150.3	1175.7	1190.8
42.5°	1044.6	1048.4	1054.0	1072.9	1090.8
45°	943.6	948.3	960.6	966.3	975.7
47.5°	837.9	852.1	866.2	848.3	849.3
50°	741.7	753.0	768.1	734.1	734.1
52.5°	655.8	661.5	662.4	634.1	639.8
55°	577.5	563.3	562.4	543.5	554.8
57.5°	499.2	480.3	473.7	468.0	481.2
60°	436.0	402.0	392.5	401.0	419.0
62.5°	384.1	340.6	322.7	344.4	360.5
65°	329.3	289.7	260.4	301.0	318.0
67.5°	286.9	249.1	211.4	268.9	281.2
70°	247.2	218.0	174.6	244.4	253.8
72.5°	215.1	192.5	151.0	220.8	232.1
75°	186.8	168.0	139.7	195.3	213.3
77.5°	164.2	143.4	130.2	168.9	190.6
80°	138.7	118.0	118.0	141.5	161.4
82.5°	109.5	92.5	95.3	115.1	129.3
85°	72.7	67.9	64.2	84.0	91.5
87.5°	36.8	37.7	34.0	43.4	44.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)