

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: P292596

Luminaire Tested: **22GR-LD5-36-A19/156-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292596
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33284)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-36-A19/156-UNV-L82765-W2A1-U-6500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3724.0 lumens
Efficiency: N/A
Efficacy: 127.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.21
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

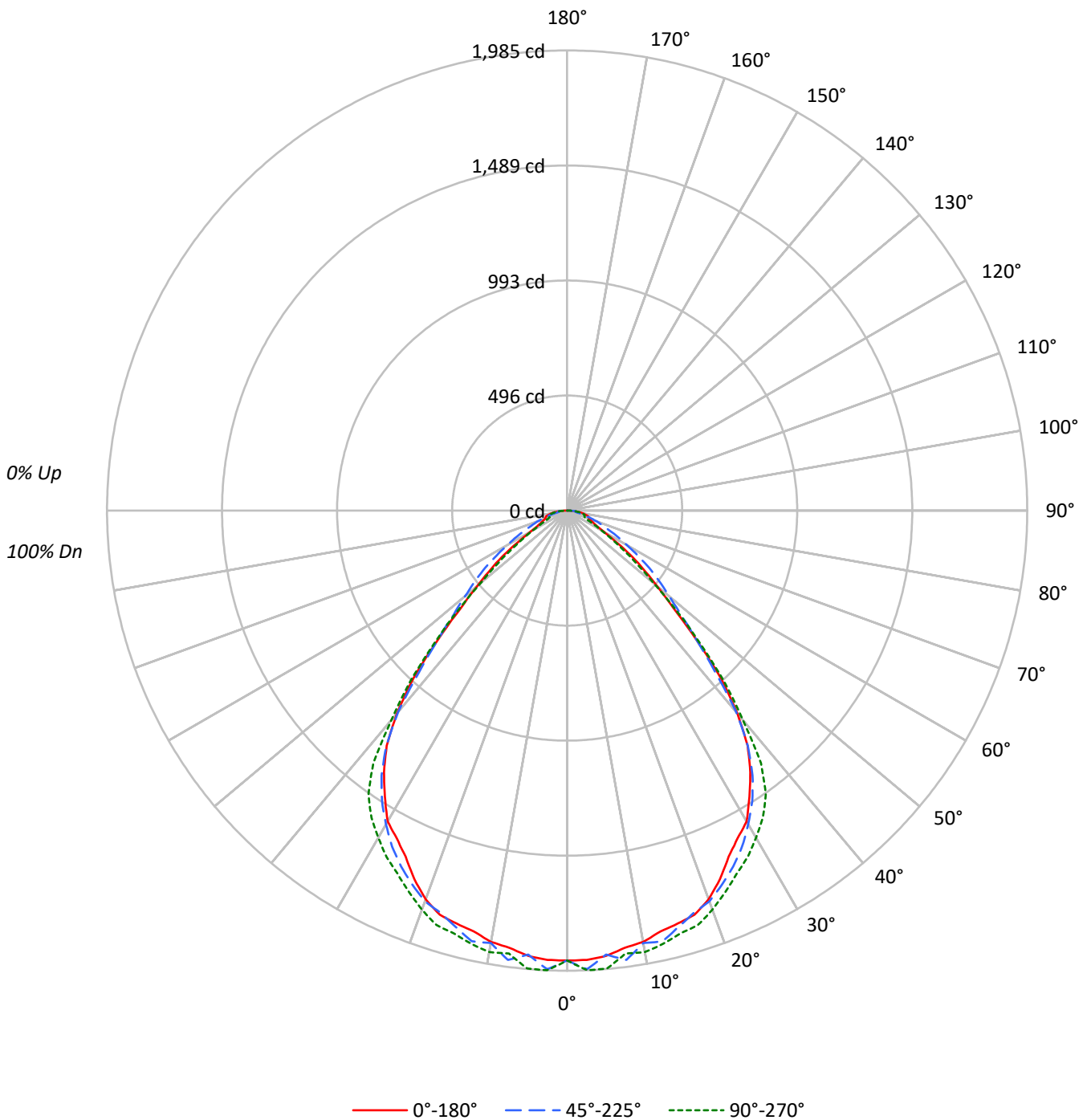
Input Watts (W): 29.295
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	91	90				88	
2	103	96	90	85	100	94	89	85	91	86	83	88	84	81	85	82	79				77	
3	95	86	79	74	93	85	79	73	82	77	72	79	75	71	77	73	70				68	
4	88	78	71	65	86	77	70	64	75	68	64	72	67	63	70	66	62				60	
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	64	59	56				54	
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50				48	
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45				44	
8	67	55	47	42	66	54	47	42	53	46	42	52	46	41	51	45	41				40	
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38				36	
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35				33	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5223	5223	5223
5°	5210	5193	5357
10°	5162	5176	5284
15°	5138	5177	5260
20°	5111	5136	5246
25°	4893	5031	5135
30°	4812	4856	5063
35°	4525	4583	4909
40°	4010	3982	4140
45°	2995	3002	3085
50°	2108	2399	2042
55°	1556	2025	1395
60°	973	1601	911
65°	793	1268	637
70°	787	1056	628
75°	976	776	812
80°	1088	612	993
85°	1084	1139	1112



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.8	5.0
10°-20°	526.2	14.1
20°-30°	779.4	20.9
30°-40°	873.1	23.4
40°-50°	641.5	17.2
50°-60°	358.6	9.6
60°-70°	199.8	5.4
70°-80°	117.4	3.2
80°-90°	43.2	1.2
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°	1490.4	40.0
0°-40°	2363.5	63.5
0°-60°	3363.6	90.3
0°-90°	3724.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3724.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1941	1941	1941	1941	1941	
5°	1929	1964	1922	1962	1983	183
15°	1844	1856	1858	1886	1888	521
25°	1648	1661	1694	1718	1729	764
35°	1378	1378	1395	1458	1494	853
45°	787	851	789	845	811	615
55°	332	404	432	431	297	296
65°	125	221	199	255	100	129
75°	94	132	75	150	78	94
85°	35	52	37	47	36	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1940.8	1940.8	1940.8	1940.8	1940.8
2.5°	1940.0	1957.5	1980.3	1983.0	1984.7
5°	1928.6	1964.5	1922.4	1961.9	1983.0
7.5°	1902.2	1924.2	1954.9	1915.4	1926.8
10°	1889.1	1894.3	1894.3	1943.5	1933.8
12.5°	1859.2	1894.3	1903.1	1893.5	1914.5
15°	1844.3	1855.7	1858.4	1886.4	1888.2
17.5°	1827.7	1825.0	1818.9	1839.1	1875.0
20°	1784.7	1775.0	1793.4	1818.0	1832.0
22.5°	1721.5	1724.1	1746.1	1766.2	1782.0
25°	1647.8	1660.9	1694.3	1718.0	1729.4
27.5°	1592.5	1611.8	1634.6	1662.7	1685.5
30°	1548.6	1546.9	1562.7	1603.0	1629.4
32.5°	1463.5	1469.7	1486.3	1534.6	1571.5
35°	1377.5	1378.4	1395.1	1458.3	1494.2
37.5°	1278.4	1271.4	1281.0	1349.5	1373.2
40°	1141.5	1143.3	1133.6	1181.9	1178.4
42.5°	981.8	995.9	945.9	1009.0	1004.6
45°	787.0	851.1	788.8	845.0	810.7
47.5°	621.2	716.0	664.2	705.4	641.4
50°	503.6	601.0	573.0	591.4	487.8
52.5°	413.3	492.2	501.0	505.4	380.8
55°	331.7	403.6	431.7	430.8	297.4
57.5°	244.8	328.2	360.6	373.8	225.5
60°	180.7	272.9	297.4	326.4	169.3
62.5°	145.7	239.5	245.7	286.0	129.0
65°	124.6	221.1	199.2	255.3	100.0
67.5°	110.6	206.2	162.3	228.1	85.1
70°	100.0	183.4	134.2	204.4	79.8
72.5°	97.4	156.2	103.5	182.5	79.0
75°	93.9	132.5	74.6	150.0	78.1
77.5°	80.7	113.2	53.5	115.8	72.8
80°	70.2	90.4	39.5	86.9	64.1
82.5°	54.4	68.4	35.1	65.8	51.8
85°	35.1	51.8	36.9	47.4	36.0
87.5°	16.7	29.0	26.3	25.4	18.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)