

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: P293979

Luminaire Tested: **24GR-LD5-34-A19/156-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293979
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33308)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-34-A19/156-UNV-L82765-W2A1-U-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3552.0 lumens
Efficiency: N/A
Efficacy: 148.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

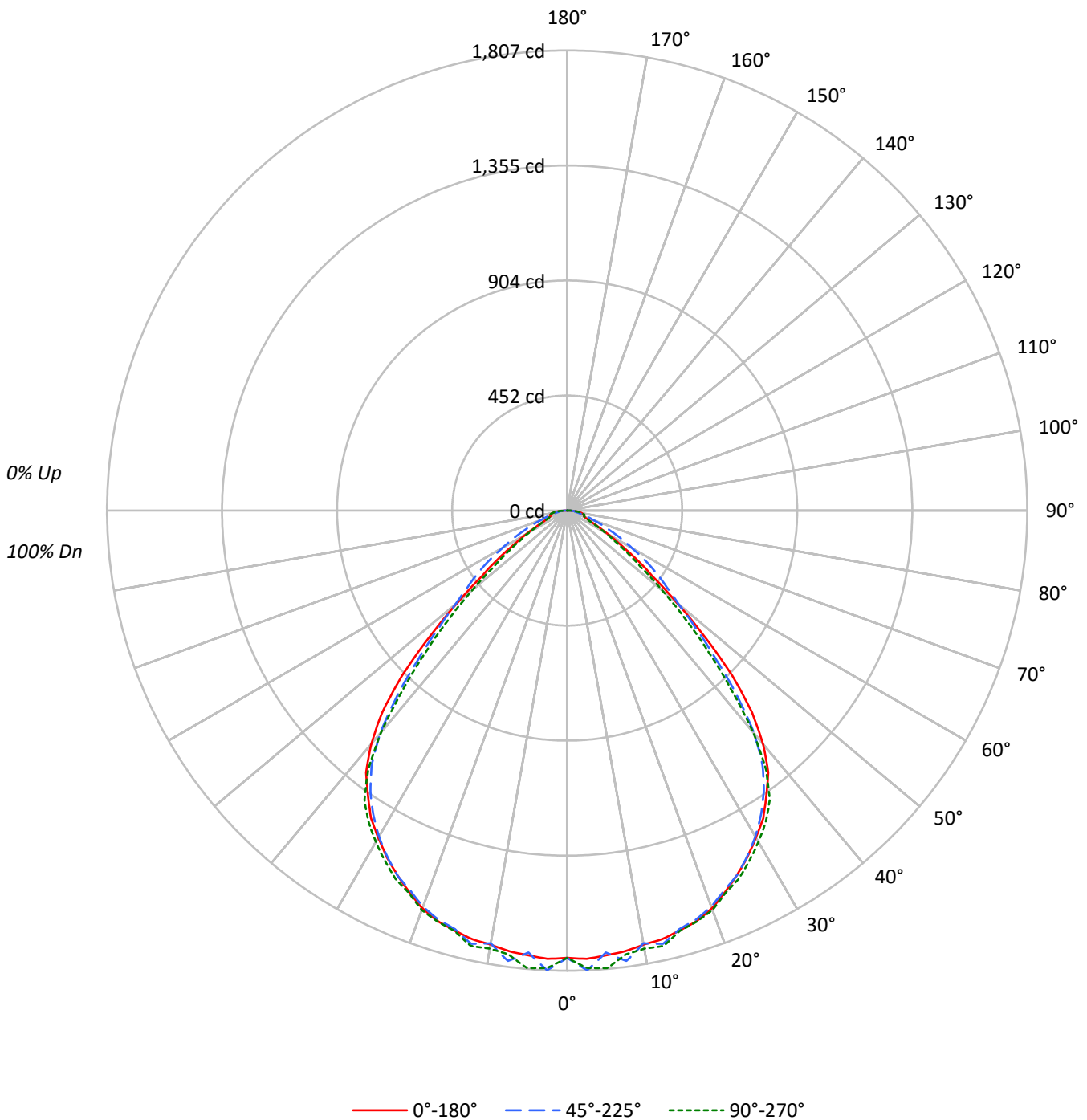
Input Watts (W): 23.994
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90					88				
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79					77				
3	95	86	79	74	93	85	78	73	82	77	72	79	75	71	77	73	70					68				
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62					60				
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55					53				
6	76	65	57	51	75	64	56	51	62	55	50	60	55	50	59	54	50					48				
7	71	59	51	46	70	58	51	46	57	50	45	56	50	45	54	49	45					43				
8	67	55	47	42	65	54	47	41	53	46	41	51	45	41	50	45	41					39				
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37					36				
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34					33				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2363	2363	2363
5°	2368	2353	2436
10°	2365	2358	2386
15°	2378	2370	2380
20°	2380	2370	2390
25°	2343	2345	2368
30°	2304	2297	2334
35°	2239	2212	2279
40°	2103	2009	1998
45°	1743	1577	1496
50°	1173	1196	1022
55°	773	1004	670
60°	496	792	459
65°	320	605	310
70°	283	433	283
75°	365	344	368
80°	446	296	469
85°	520	440	546



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.2	4.7
10°-20°	482.9	13.6
20°-30°	726.9	20.5
30°-40°	842.6	23.7
40°-50°	658.2	18.5
50°-60°	351.5	9.9
60°-70°	180.7	5.1
70°-80°	102.3	2.9
80°-90°	38.8	1.1
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°	1378.0	38.8
0°-40°	2220.6	62.5
0°-60°	3230.2	90.9
0°-90°	3552.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3552.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1756	1756	1756	1756	1756	
5°	1754	1803	1742	1790	1804	167
15°	1707	1718	1702	1712	1708	482
25°	1578	1573	1580	1577	1595	727
35°	1363	1357	1347	1374	1387	850
45°	916	917	829	821	786	690
55°	330	417	428	386	286	304
65°	100	209	190	209	98	110
75°	70	132	66	123	71	71
85°	34	44	28	44	35	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1756.4	1756.4	1756.4	1756.4	1756.4
2.5°	1762.1	1794.0	1806.6	1791.2	1798.0
5°	1753.5	1802.6	1742.1	1790.0	1803.7
7.5°	1745.5	1740.4	1784.3	1738.7	1758.1
10°	1730.7	1734.1	1725.6	1758.1	1746.7
12.5°	1723.8	1743.8	1742.1	1725.6	1750.7
15°	1707.3	1718.1	1701.6	1712.4	1708.4
17.5°	1690.8	1685.6	1683.9	1688.5	1692.5
20°	1662.2	1645.1	1655.4	1656.5	1669.1
22.5°	1621.2	1610.9	1613.2	1623.5	1624.6
25°	1578.4	1573.3	1579.5	1577.2	1594.9
27.5°	1533.9	1527.0	1531.0	1539.6	1550.4
30°	1483.1	1481.4	1478.6	1486.0	1502.5
32.5°	1432.9	1419.2	1417.0	1432.4	1451.2
35°	1363.3	1357.1	1346.8	1373.6	1387.3
37.5°	1297.2	1277.8	1261.2	1277.2	1282.9
40°	1197.3	1182.5	1143.7	1145.4	1137.4
42.5°	1074.7	1063.9	989.7	976.6	954.3
45°	916.1	916.7	828.8	821.4	786.1
47.5°	731.9	764.4	687.9	679.4	626.9
50°	560.2	618.9	571.6	557.9	488.3
52.5°	420.4	506.5	491.7	462.1	366.2
55°	329.7	417.0	427.8	385.6	285.8
57.5°	248.1	343.4	361.1	326.3	220.8
60°	184.2	289.2	294.3	280.7	170.6
62.5°	136.9	245.9	239.0	240.7	126.6
65°	100.4	209.3	190.0	208.8	97.5
67.5°	82.1	181.4	147.7	180.8	79.3
70°	71.9	160.9	110.1	159.2	71.9
72.5°	69.6	147.7	87.3	141.5	70.2
75°	70.2	131.8	66.2	123.2	70.7
77.5°	64.5	108.4	50.2	105.0	67.3
80°	57.6	82.1	38.2	83.3	60.5
82.5°	49.1	59.9	30.8	61.6	50.8
85°	33.7	43.9	28.5	43.9	35.4
87.5°	16.0	26.2	17.7	25.1	18.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)