

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: P293922

Luminaire Tested: **24GR-LD5-34-A19/156-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293922
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-L83050-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3211.0 lumens
Efficiency: N/A
Efficacy: 139.8 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

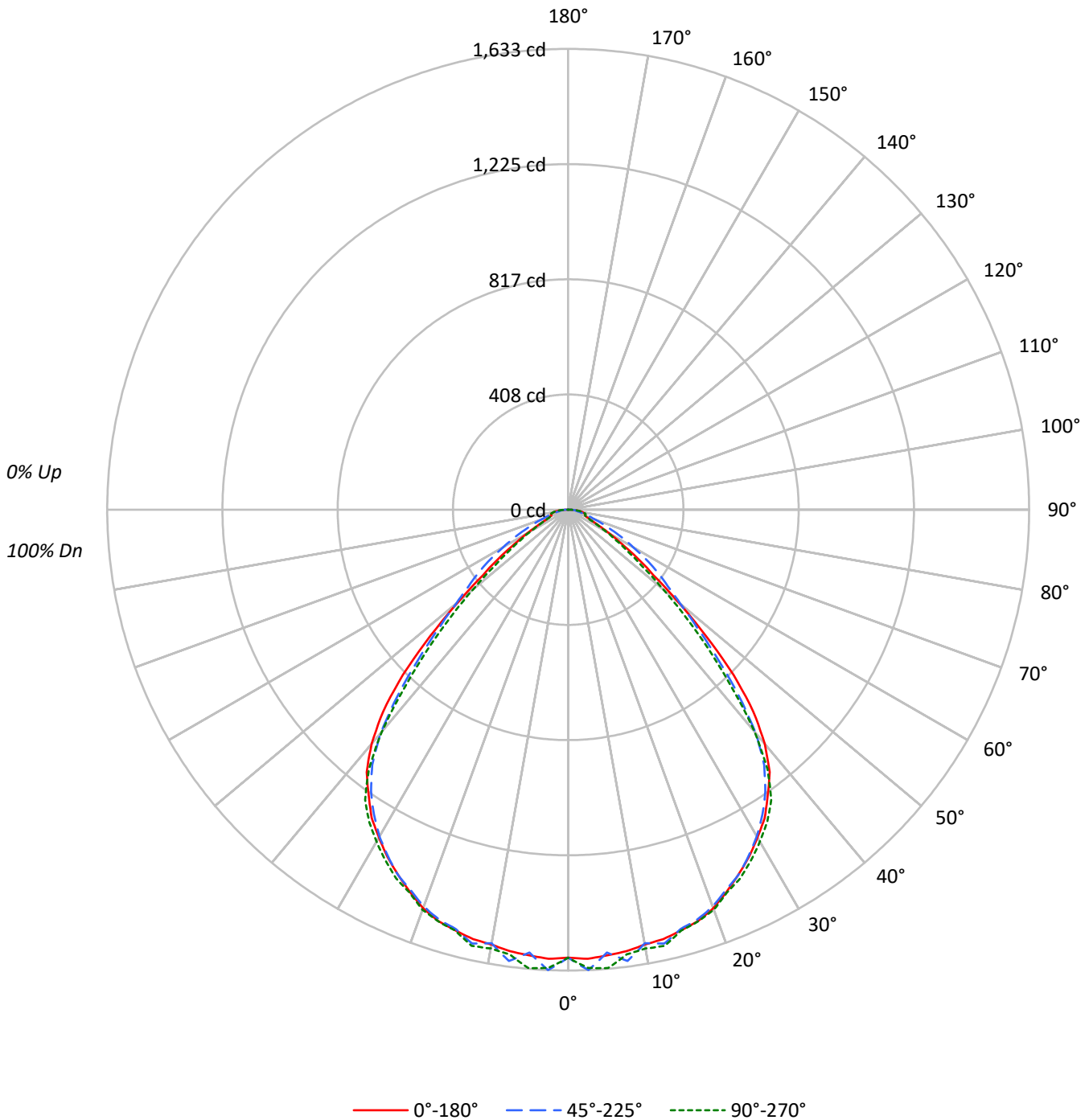
Input Watts (W): 22.971
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2136	2136	2136
5°	2141	2127	2202
10°	2137	2131	2157
15°	2150	2143	2151
20°	2152	2143	2160
25°	2118	2120	2140
30°	2083	2077	2110
35°	2024	2000	2060
40°	1901	1816	1806
45°	1576	1426	1352
50°	1060	1082	924
55°	699	907	606
60°	448	716	415
65°	289	547	281
70°	256	391	256
75°	330	311	332
80°	404	267	424
85°	469	398	494



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.0	4.7
10°-20°	436.5	13.6
20°-30°	657.2	20.5
30°-40°	761.7	23.7
40°-50°	595.0	18.5
50°-60°	317.7	9.9
60°-70°	163.4	5.1
70°-80°	92.4	2.9
80°-90°	35.1	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°	1245.7	38.8
0°-40°	2007.4	62.5
0°-60°	2920.1	90.9
0°-90°	3211.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3211.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1588	1588	1588	1588	1588	
5°	1585	1630	1575	1618	1630	151
15°	1543	1553	1538	1548	1544	436
25°	1427	1422	1428	1426	1442	657
35°	1232	1227	1218	1242	1254	768
45°	828	829	749	743	711	624
55°	298	377	387	349	258	275
65°	91	189	172	189	88	100
75°	63	119	60	111	64	64
85°	30	40	26	40	32	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1587.7	1587.7	1587.7	1587.7	1587.7
2.5°	1592.9	1621.8	1633.1	1619.2	1625.4
5°	1585.2	1629.5	1574.9	1618.2	1630.5
7.5°	1577.9	1573.3	1613.0	1571.8	1589.3
10°	1564.5	1567.6	1559.9	1589.3	1579.0
12.5°	1558.4	1576.4	1574.9	1559.9	1582.6
15°	1543.4	1553.2	1538.2	1548.0	1544.4
17.5°	1528.4	1523.8	1522.3	1526.4	1530.0
20°	1502.7	1487.2	1496.5	1497.5	1508.8
22.5°	1465.5	1456.3	1458.3	1467.6	1468.6
25°	1426.9	1422.2	1427.9	1425.8	1441.8
27.5°	1386.6	1380.4	1384.1	1391.8	1401.6
30°	1340.7	1339.2	1336.6	1343.3	1358.3
32.5°	1295.4	1283.0	1280.9	1294.8	1311.9
35°	1232.5	1226.8	1217.5	1241.7	1254.1
37.5°	1172.6	1155.1	1140.1	1154.6	1159.7
40°	1082.4	1069.0	1033.9	1035.5	1028.2
42.5°	971.5	961.7	894.7	882.8	862.7
45°	828.2	828.7	749.3	742.6	710.6
47.5°	661.6	691.0	621.9	614.2	566.7
50°	506.4	559.5	516.7	504.3	441.4
52.5°	380.0	457.9	444.5	417.7	331.1
55°	298.1	377.0	386.8	348.6	258.4
57.5°	224.3	310.4	326.4	295.0	199.6
60°	166.6	261.4	266.1	253.7	154.2
62.5°	123.8	222.3	216.1	217.6	114.5
65°	90.8	189.3	171.7	188.7	88.2
67.5°	74.3	164.0	133.6	163.5	71.7
70°	65.0	145.4	99.5	143.9	65.0
72.5°	62.9	133.6	78.9	127.9	63.4
75°	63.4	119.1	59.8	111.4	63.9
77.5°	58.3	98.0	45.4	94.9	60.8
80°	52.1	74.3	34.5	75.3	54.7
82.5°	44.3	54.1	27.8	55.7	45.9
85°	30.4	39.7	25.8	39.7	32.0
87.5°	14.4	23.7	16.0	22.7	16.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)