

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: P294102

Luminaire Tested: **24GR-LD5-34-A19/156-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294102
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-L92765-W2A1-U-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3141.0 lumens
Efficiency: N/A
Efficacy: 133.5 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

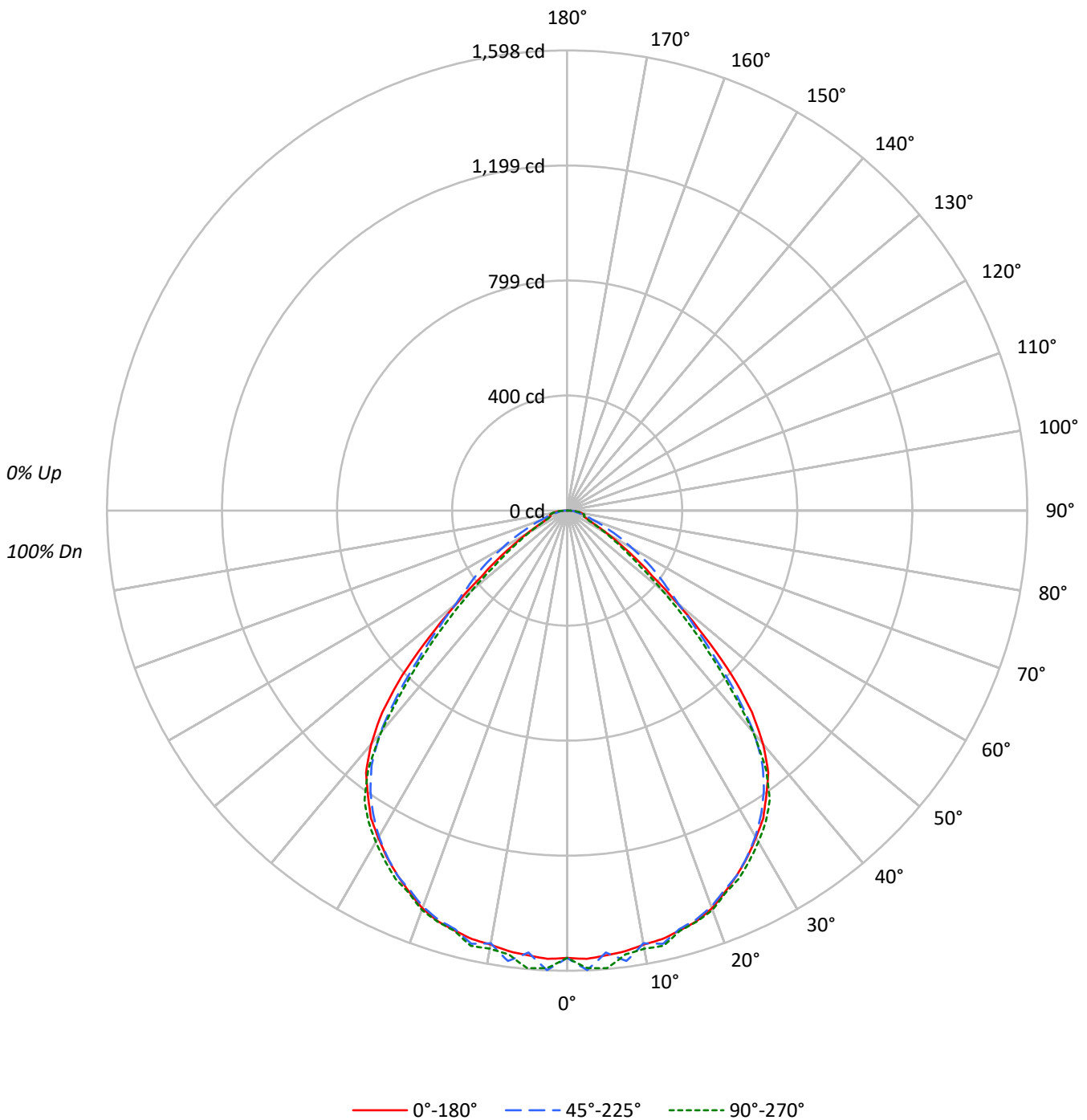
Input Watts (W): 23.529
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2090	2090	2090
5°	2094	2081	2154
10°	2091	2085	2110
15°	2103	2096	2104
20°	2105	2096	2113
25°	2072	2074	2094
30°	2038	2031	2064
35°	1980	1956	2015
40°	1860	1776	1767
45°	1541	1395	1323
50°	1037	1058	904
55°	684	887	593
60°	438	700	406
65°	283	535	275
70°	250	383	250
75°	322	304	325
80°	394	262	415
85°	460	389	483



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.7	4.7
10°-20°	427.0	13.6
20°-30°	642.8	20.5
30°-40°	745.1	23.7
40°-50°	582.0	18.5
50°-60°	310.8	9.9
60°-70°	159.8	5.1
70°-80°	90.4	2.9
80°-90°	34.3	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°	1218.5	38.8
0°-40°	1963.6	62.5
0°-60°	2856.4	90.9
0°-90°	3141.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3141.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1553	1553	1553	1553	1553	
5°	1551	1594	1540	1583	1595	147
15°	1510	1519	1505	1514	1511	426
25°	1396	1391	1397	1395	1410	643
35°	1206	1200	1191	1215	1227	752
45°	810	811	733	726	695	610
55°	292	369	378	341	253	269
65°	89	185	168	185	86	98
75°	62	116	58	109	62	63
85°	30	39	25	39	31	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1553.1	1553.1	1553.1	1553.1	1553.1
2.5°	1558.2	1586.4	1597.5	1583.9	1590.0
5°	1550.6	1594.0	1540.5	1582.9	1595.0
7.5°	1543.6	1539.0	1577.9	1537.5	1554.6
10°	1530.4	1533.5	1525.9	1554.6	1544.6
12.5°	1524.4	1542.0	1540.5	1525.9	1548.1
15°	1509.8	1519.3	1504.7	1514.3	1510.8
17.5°	1495.1	1490.6	1489.1	1493.1	1496.6
20°	1469.9	1454.8	1463.9	1464.9	1476.0
22.5°	1433.6	1424.5	1426.5	1435.6	1436.6
25°	1395.8	1391.2	1396.8	1394.7	1410.4
27.5°	1356.4	1350.4	1353.9	1361.5	1371.0
30°	1311.5	1310.0	1307.5	1314.0	1328.7
32.5°	1267.1	1255.0	1253.0	1266.6	1283.3
35°	1205.6	1200.0	1191.0	1214.7	1226.8
37.5°	1147.1	1129.9	1115.3	1129.4	1134.5
40°	1058.8	1045.7	1011.4	1012.9	1005.8
42.5°	950.3	940.8	875.2	863.6	843.9
45°	810.1	810.6	732.9	726.4	695.1
47.5°	647.2	675.9	608.3	600.8	554.4
50°	495.3	547.3	505.4	493.3	431.8
52.5°	371.8	447.9	434.8	408.6	323.8
55°	291.6	368.7	378.3	341.0	252.7
57.5°	219.4	303.7	319.3	288.5	195.2
60°	162.9	255.7	260.3	248.2	150.8
62.5°	121.1	217.4	211.4	212.9	112.0
65°	88.8	185.1	168.0	184.6	86.3
67.5°	72.6	160.4	130.6	159.9	70.1
70°	63.6	142.2	97.4	140.7	63.6
72.5°	61.5	130.6	77.2	125.1	62.0
75°	62.0	116.5	58.5	109.0	62.5
77.5°	57.0	95.8	44.4	92.8	59.5
80°	50.9	72.6	33.8	73.6	53.5
82.5°	43.4	53.0	27.2	54.5	44.9
85°	29.8	38.8	25.2	38.8	31.3
87.5°	14.1	23.2	15.6	22.2	16.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)