

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: P294098

Luminaire Tested: **24GR-LD5-34-A19/156-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294098
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-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2769.0 lumens
Efficiency: N/A
Efficacy: 121.5 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

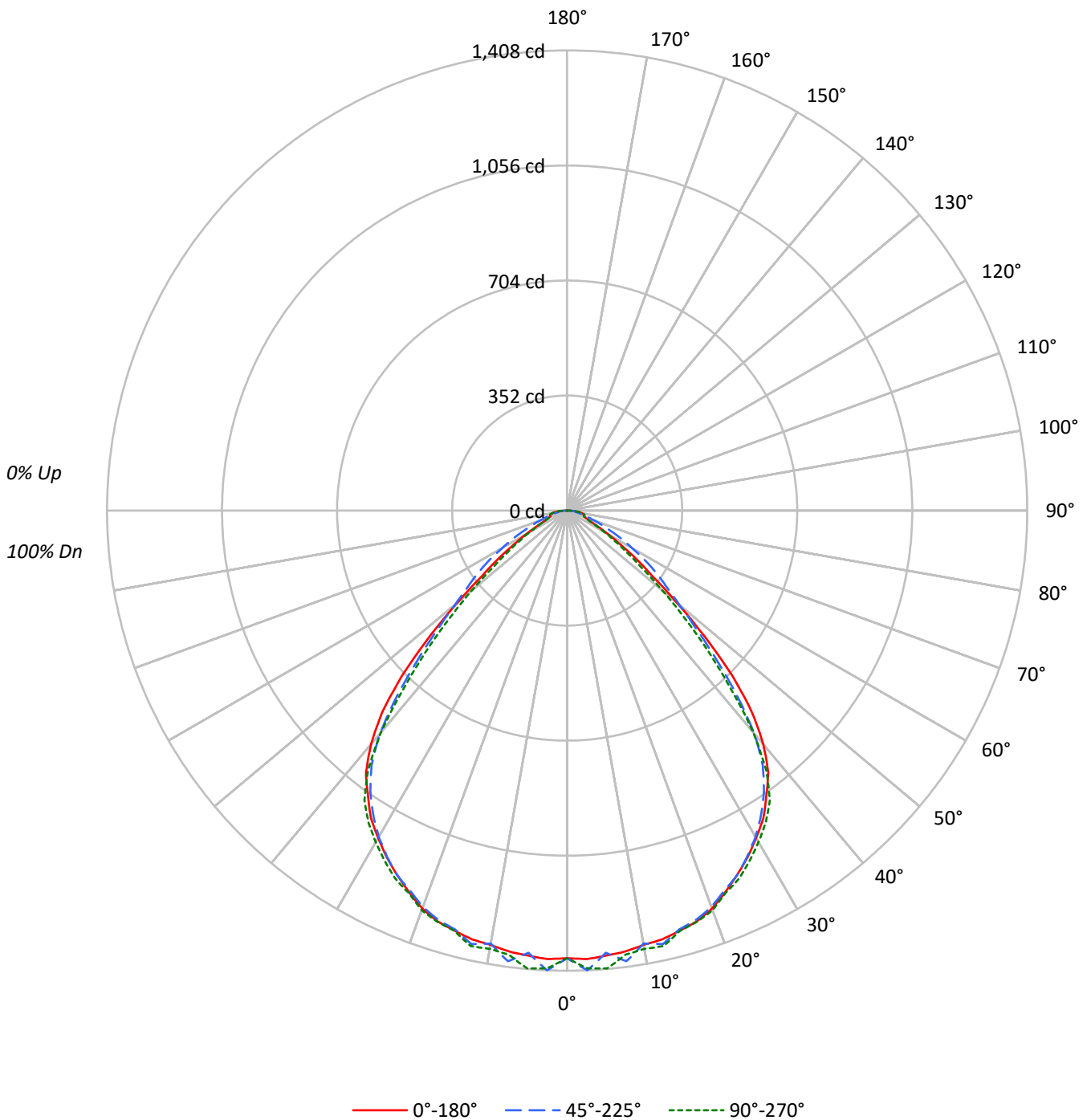
Input Watts (W): 22.785
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1842	1842	1842
5°	1846	1834	1899
10°	1843	1838	1860
15°	1854	1848	1855
20°	1855	1848	1863
25°	1827	1828	1846
30°	1796	1791	1820
35°	1746	1725	1776
40°	1639	1566	1557
45°	1359	1229	1166
50°	914	933	797
55°	603	782	523
60°	386	618	358
65°	249	472	242
70°	220	338	220
75°	284	268	286
80°	348	231	365
85°	404	343	426



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.1	4.7
10°-20°	376.4	13.6
20°-30°	566.7	20.5
30°-40°	656.8	23.7
40°-50°	513.1	18.5
50°-60°	274.0	9.9
60°-70°	140.9	5.1
70°-80°	79.7	2.9
80°-90°	30.3	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°	1074.2	38.8
0°-40°	1731.1	62.5
0°-60°	2518.1	90.9
0°-90°	2769.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2769.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1369	1369	1369	1369	1369	
5°	1367	1405	1358	1395	1406	130
15°	1331	1339	1326	1335	1332	376
25°	1230	1226	1231	1230	1243	567
35°	1063	1058	1050	1071	1082	663
45°	714	715	646	640	613	538
55°	257	325	334	301	223	237
65°	78	163	148	163	76	86
75°	55	103	52	96	55	55
85°	26	34	22	34	28	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1369.2	1369.2	1369.2	1369.2	1369.2
2.5°	1373.6	1398.5	1408.3	1396.3	1401.7
5°	1367.0	1405.2	1358.1	1395.4	1406.1
7.5°	1360.7	1356.7	1391.0	1355.4	1370.5
10°	1349.2	1351.8	1345.2	1370.5	1361.6
12.5°	1343.8	1359.4	1358.1	1345.2	1364.7
15°	1330.9	1339.4	1326.5	1335.0	1331.8
17.5°	1318.1	1314.0	1312.7	1316.3	1319.4
20°	1295.8	1282.5	1290.5	1291.4	1301.2
22.5°	1263.8	1255.8	1257.6	1265.6	1266.5
25°	1230.4	1226.4	1231.3	1229.6	1243.3
27.5°	1195.8	1190.4	1193.5	1200.2	1208.7
30°	1156.2	1154.9	1152.6	1158.4	1171.3
32.5°	1117.1	1106.4	1104.6	1116.6	1131.3
35°	1062.8	1057.9	1049.9	1070.8	1081.5
37.5°	1011.2	996.1	983.2	995.7	1000.1
40°	933.4	921.8	891.6	892.9	886.7
42.5°	837.8	829.3	771.5	761.3	744.0
45°	714.2	714.6	646.1	640.3	612.8
47.5°	570.5	595.9	536.3	529.6	488.7
50°	436.7	482.5	445.6	434.9	380.7
52.5°	327.7	394.9	383.3	360.2	285.5
55°	257.0	325.1	333.5	300.6	222.8
57.5°	193.4	267.7	281.5	254.4	172.1
60°	143.6	225.5	229.5	218.8	133.0
62.5°	106.7	191.7	186.3	187.7	98.7
65°	78.3	163.2	148.1	162.8	76.0
67.5°	64.0	141.4	115.2	141.0	61.8
70°	56.0	125.4	85.8	124.1	56.0
72.5°	54.3	115.2	68.0	110.3	54.7
75°	54.7	102.7	51.6	96.1	55.1
77.5°	50.2	84.5	39.1	81.8	52.5
80°	44.9	64.0	29.8	64.9	47.1
82.5°	38.2	46.7	24.0	48.0	39.6
85°	26.2	34.2	22.2	34.2	27.6
87.5°	12.5	20.5	13.8	19.6	14.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)