

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: P293974

Luminaire Tested: **24GR-LD5-34-A19/156-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293974
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-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3392.0 lumens
Efficiency: N/A
Efficacy: 145.9 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

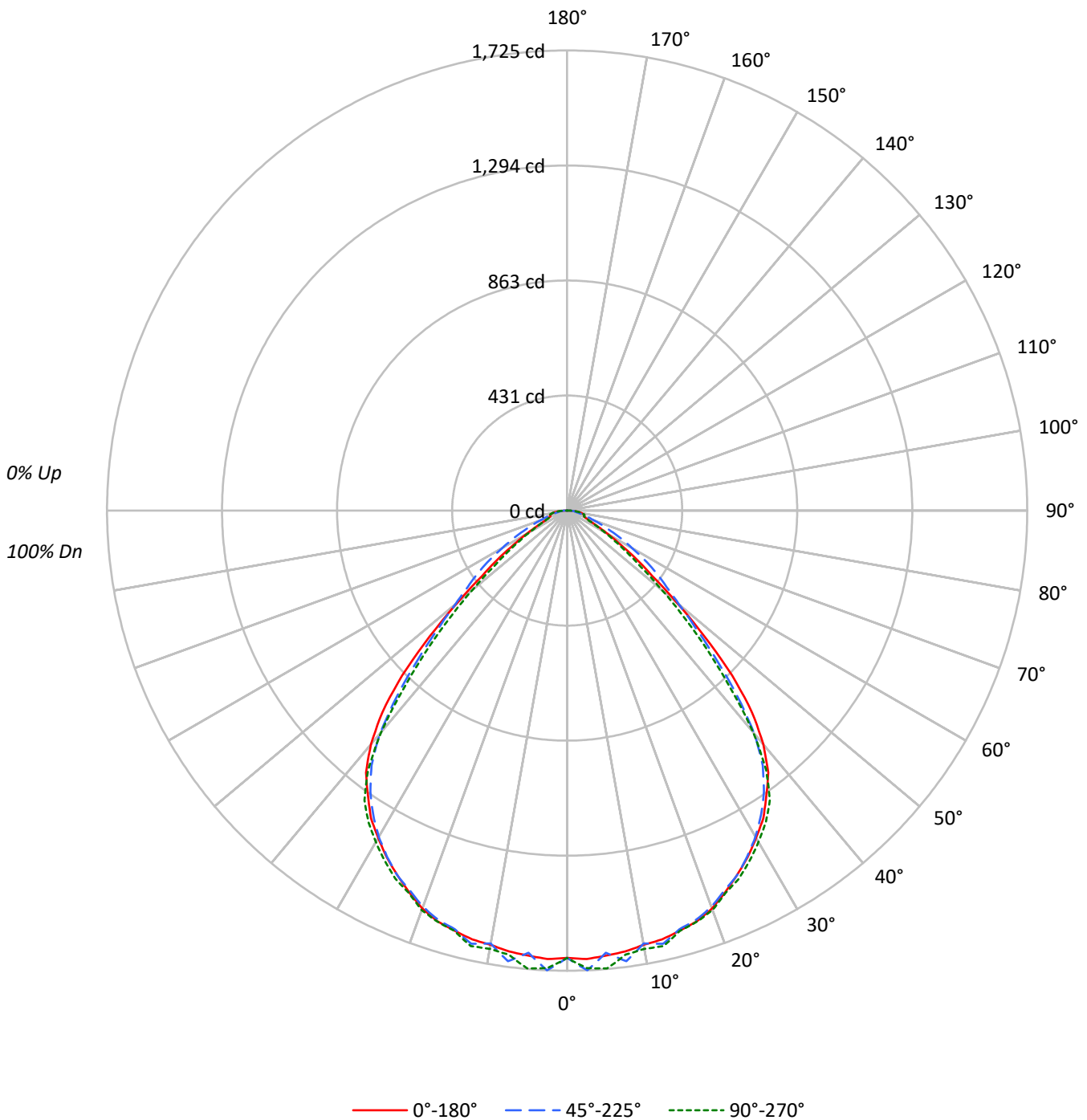
Input Watts (W): 23.25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2257	2257	2257
5°	2262	2247	2326
10°	2258	2251	2279
15°	2271	2264	2273
20°	2273	2263	2282
25°	2238	2239	2261
30°	2200	2194	2229
35°	2138	2112	2176
40°	2008	1918	1908
45°	1665	1506	1428
50°	1120	1142	976
55°	739	958	640
60°	474	756	438
65°	305	578	297
70°	270	413	270
75°	348	329	351
80°	426	283	447
85°	496	420	522



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.6	4.7
10°-20°	461.1	13.6
20°-30°	694.2	20.5
30°-40°	804.6	23.7
40°-50°	628.5	18.5
50°-60°	335.6	9.9
60°-70°	172.6	5.1
70°-80°	97.6	2.9
80°-90°	37.1	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°	1315.9	38.8
0°-40°	2120.5	62.5
0°-60°	3084.7	90.9
0°-90°	3392.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3392.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1677	1677	1677	1677	1677	
5°	1674	1721	1664	1709	1722	159
15°	1630	1641	1625	1635	1632	461
25°	1507	1502	1508	1506	1523	695
35°	1302	1296	1286	1312	1325	812
45°	875	875	792	784	751	659
55°	315	398	409	368	273	291
65°	96	200	181	199	93	105
75°	67	126	63	118	68	68
85°	32	42	27	42	34	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1677.2	1677.2	1677.2	1677.2	1677.2
2.5°	1682.7	1713.2	1725.2	1710.5	1717.0
5°	1674.5	1721.4	1663.6	1709.4	1722.5
7.5°	1666.9	1662.0	1703.9	1660.4	1678.9
10°	1652.7	1656.0	1647.8	1678.9	1668.0
12.5°	1646.2	1665.3	1663.6	1647.8	1671.8
15°	1630.4	1640.7	1625.0	1635.3	1631.5
17.5°	1614.6	1609.7	1608.1	1612.4	1616.2
20°	1587.4	1571.0	1580.8	1581.9	1593.9
22.5°	1548.1	1538.3	1540.5	1550.3	1551.4
25°	1507.3	1502.4	1508.4	1506.2	1523.1
27.5°	1464.8	1458.3	1462.1	1470.2	1480.6
30°	1416.3	1414.7	1412.0	1419.0	1434.8
32.5°	1368.4	1355.3	1353.1	1367.8	1385.8
35°	1301.9	1295.9	1286.1	1311.7	1324.8
37.5°	1238.7	1220.2	1204.4	1219.7	1225.1
40°	1143.4	1129.2	1092.2	1093.8	1086.2
42.5°	1026.3	1015.9	945.1	932.6	911.3
45°	874.8	875.4	791.5	784.4	750.6
47.5°	698.9	729.9	657.0	648.8	598.7
50°	534.9	591.0	545.8	532.8	466.3
52.5°	401.5	483.7	469.6	441.2	349.7
55°	314.9	398.2	408.6	368.2	272.9
57.5°	237.0	327.9	344.8	311.6	210.8
60°	176.0	276.2	281.1	268.0	162.9
62.5°	130.7	234.8	228.2	229.9	120.9
65°	95.9	199.9	181.4	199.4	93.2
67.5°	78.4	173.2	141.1	172.7	75.7
70°	68.6	153.6	105.1	152.0	68.6
72.5°	66.5	141.1	83.3	135.1	67.0
75°	67.0	125.8	63.2	117.7	67.5
77.5°	61.6	103.5	47.9	100.2	64.3
80°	55.0	78.4	36.5	79.5	57.7
82.5°	46.8	57.2	29.4	58.8	48.5
85°	32.1	41.9	27.2	41.9	33.8
87.5°	15.3	25.1	16.9	24.0	17.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)