

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: P294105

Luminaire Tested: **24GR-LD5-34-A19/156-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294105
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-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3225.0 lumens
Efficiency: N/A
Efficacy: 133.9 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

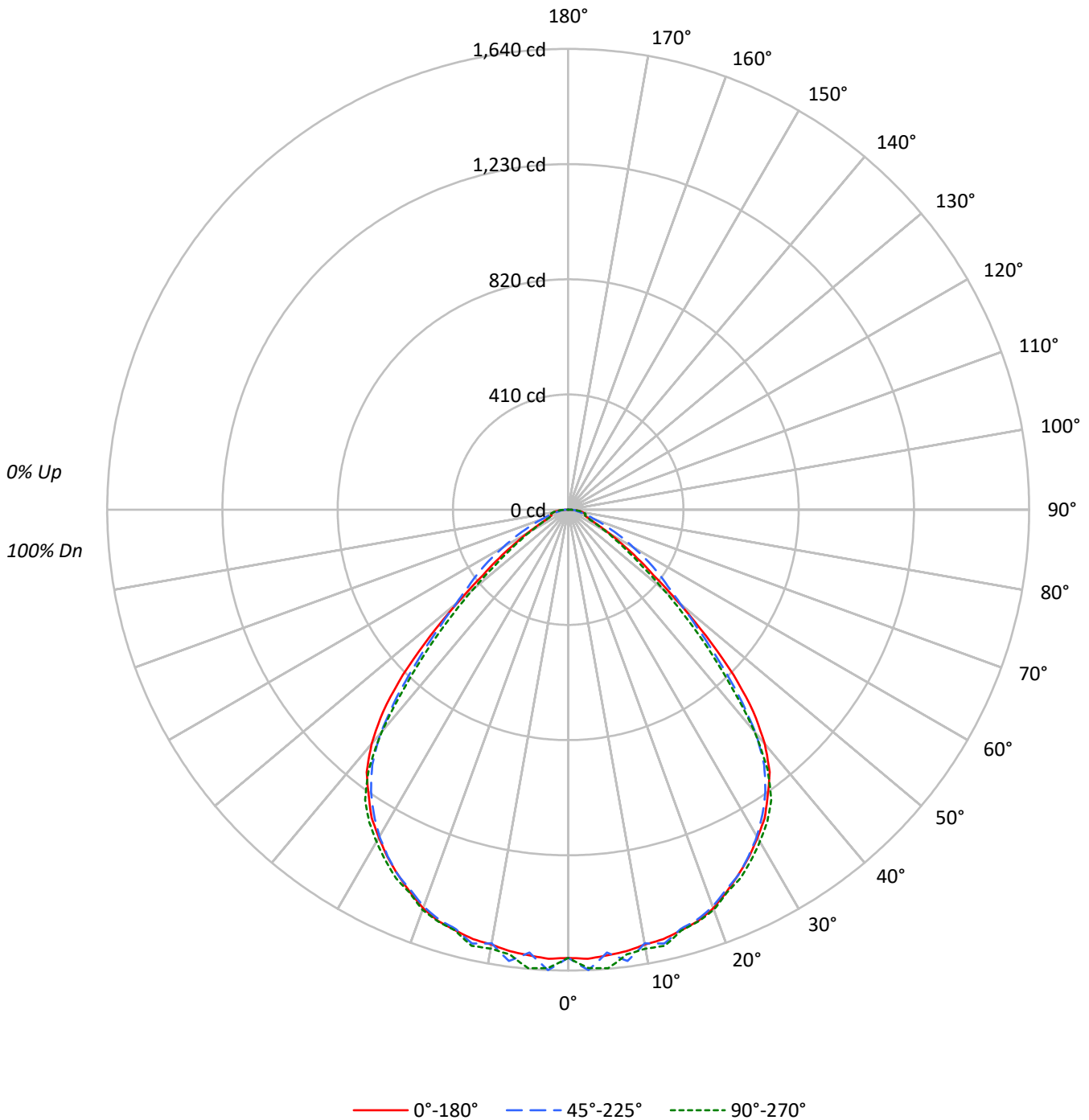
Input Watts (W): 24.087
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2146	2146	2146
5°	2150	2136	2212
10°	2147	2140	2167
15°	2159	2152	2161
20°	2161	2152	2170
25°	2128	2129	2150
30°	2092	2086	2119
35°	2033	2008	2069
40°	1909	1824	1814
45°	1583	1432	1358
50°	1065	1086	928
55°	702	911	609
60°	450	719	417
65°	290	549	282
70°	257	393	257
75°	331	312	334
80°	405	269	425
85°	472	400	496



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.7	4.7
10°-20°	438.4	13.6
20°-30°	660.0	20.5
30°-40°	765.0	23.7
40°-50°	597.6	18.5
50°-60°	319.1	9.9
60°-70°	164.1	5.1
70°-80°	92.8	2.9
80°-90°	35.3	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°	1251.1	38.8
0°-40°	2016.1	62.5
0°-60°	2932.8	90.9
0°-90°	3225.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3225.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1595	1595	1595	1595	1595	
5°	1592	1637	1582	1625	1638	151
15°	1550	1560	1545	1555	1551	438
25°	1433	1428	1434	1432	1448	660
35°	1238	1232	1223	1247	1260	772
45°	832	832	752	746	714	627
55°	299	379	388	350	260	276
65°	91	190	172	190	89	100
75°	64	120	60	112	64	65
85°	31	40	26	40	32	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1594.7	1594.7	1594.7	1594.7	1594.7
2.5°	1599.8	1628.9	1640.2	1626.3	1632.5
5°	1592.1	1636.6	1581.7	1625.2	1637.7
7.5°	1584.8	1580.2	1620.0	1578.6	1596.2
10°	1571.4	1574.5	1566.7	1596.2	1585.9
12.5°	1565.1	1583.3	1581.7	1566.7	1589.5
15°	1550.1	1560.0	1544.9	1554.8	1551.2
17.5°	1535.1	1530.4	1528.9	1533.0	1536.7
20°	1509.2	1493.7	1503.0	1504.0	1515.4
22.5°	1471.9	1462.6	1464.7	1474.0	1475.0
25°	1433.1	1428.4	1434.1	1432.0	1448.1
27.5°	1392.7	1386.5	1390.1	1397.9	1407.7
30°	1346.6	1345.0	1342.4	1349.2	1364.2
32.5°	1301.0	1288.6	1286.5	1300.5	1317.6
35°	1237.8	1232.1	1222.8	1247.1	1259.6
37.5°	1177.7	1160.1	1145.1	1159.6	1164.8
40°	1087.1	1073.6	1038.4	1040.0	1032.7
42.5°	975.8	965.9	898.6	886.7	866.5
45°	831.8	832.3	752.5	745.8	713.7
47.5°	664.5	694.0	624.6	616.8	569.2
50°	508.6	561.9	519.0	506.5	443.3
52.5°	381.7	459.9	446.4	419.5	332.5
55°	299.4	378.6	388.4	350.1	259.5
57.5°	225.3	311.8	327.8	296.2	200.4
60°	167.3	262.6	267.2	254.8	154.9
62.5°	124.3	223.2	217.0	218.6	115.0
65°	91.2	190.1	172.5	189.6	88.6
67.5°	74.6	164.7	134.1	164.2	72.0
70°	65.3	146.1	100.0	144.5	65.3
72.5°	63.2	134.1	79.2	128.4	63.7
75°	63.7	119.6	60.1	111.9	64.2
77.5°	58.5	98.4	45.6	95.3	61.1
80°	52.3	74.6	34.7	75.6	54.9
82.5°	44.5	54.4	28.0	55.9	46.1
85°	30.6	39.9	25.9	39.9	32.1
87.5°	14.5	23.8	16.1	22.8	16.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)