

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: P294113

Luminaire Tested: **24GR-LD5-38-A19/156-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294113
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-LD5-38-A19/156-UNV-L92765-W2A1-U-5700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3531.0 lumens
Efficiency: N/A
Efficacy: 135.1 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

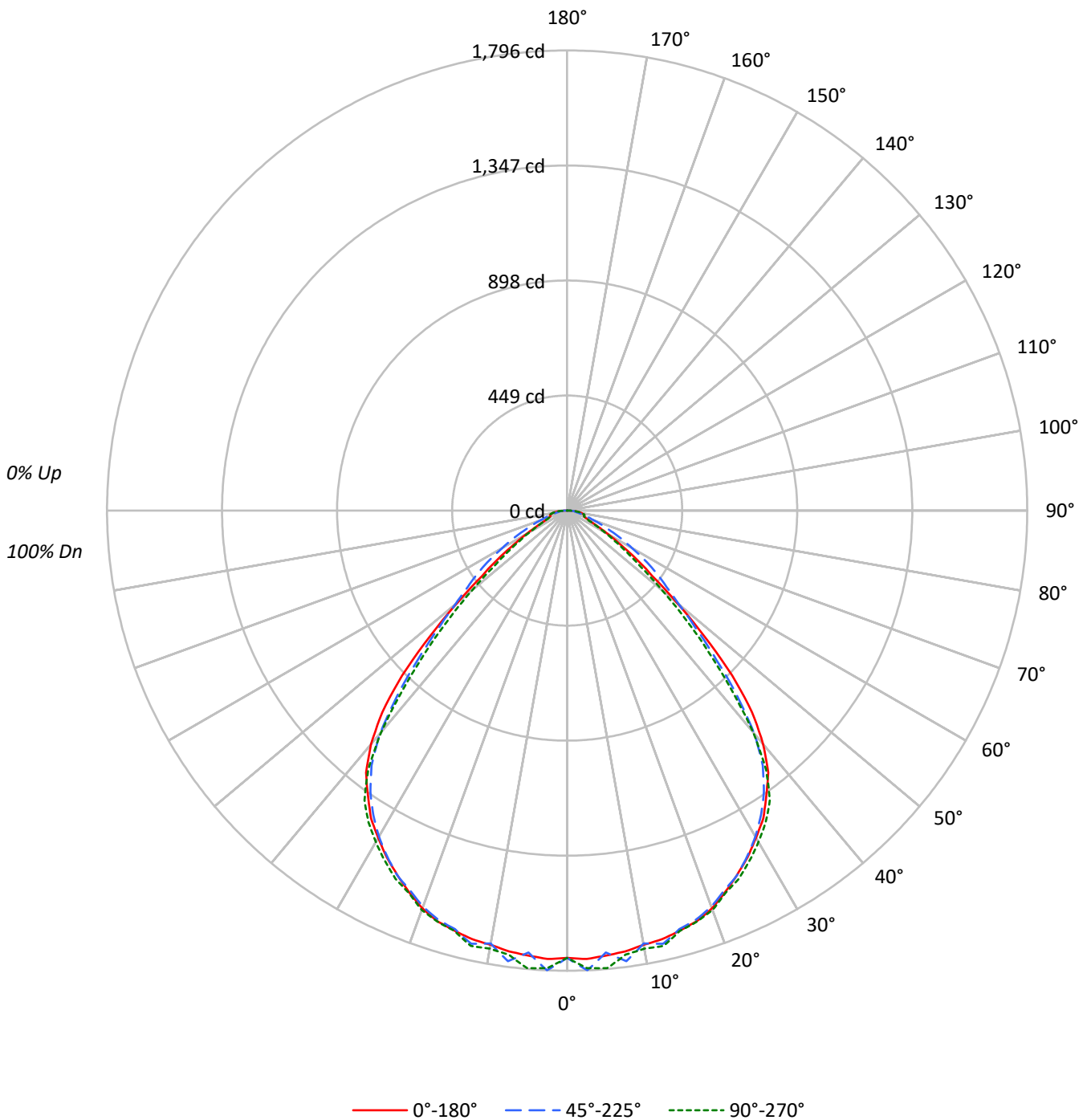
Input Watts (W): 26.133
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2349	2349	2349
5°	2354	2339	2422
10°	2351	2344	2372
15°	2364	2356	2366
20°	2366	2356	2376
25°	2329	2331	2354
30°	2291	2284	2321
35°	2226	2199	2265
40°	2091	1997	1986
45°	1733	1568	1487
50°	1166	1189	1016
55°	769	998	666
60°	493	787	456
65°	318	601	309
70°	281	430	281
75°	362	342	365
80°	444	294	466
85°	517	438	543



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.2	4.7
10°-20°	480.0	13.6
20°-30°	722.7	20.5
30°-40°	837.6	23.7
40°-50°	654.3	18.5
50°-60°	349.4	9.9
60°-70°	179.7	5.1
70°-80°	101.6	2.9
80°-90°	38.6	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°	1369.8	38.8
0°-40°	2207.4	62.5
0°-60°	3211.1	90.9
0°-90°	3531.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3531.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1746	1746	1746	1746	1746	
5°	1743	1792	1732	1779	1793	166
15°	1697	1708	1692	1702	1698	479
25°	1569	1564	1570	1568	1586	723
35°	1355	1349	1339	1366	1379	845
45°	911	911	824	817	781	686
55°	328	414	425	383	284	302
65°	100	208	189	208	97	110
75°	70	131	66	122	70	71
85°	34	44	28	44	35	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1746.0	1746.0	1746.0	1746.0	1746.0
2.5°	1751.6	1783.4	1795.9	1780.6	1787.4
5°	1743.1	1791.9	1731.8	1779.4	1793.0
7.5°	1735.2	1730.1	1773.8	1728.4	1747.7
10°	1720.5	1723.9	1715.4	1747.7	1736.3
12.5°	1713.7	1733.5	1731.8	1715.4	1740.3
15°	1697.2	1708.0	1691.5	1702.3	1698.3
17.5°	1680.8	1675.7	1674.0	1678.5	1682.5
20°	1652.4	1635.4	1645.6	1646.7	1659.2
22.5°	1611.6	1601.4	1603.6	1613.9	1615.0
25°	1569.1	1564.0	1570.2	1567.9	1585.5
27.5°	1524.8	1518.0	1522.0	1530.5	1541.3
30°	1474.4	1472.7	1469.8	1477.2	1493.6
32.5°	1424.5	1410.8	1408.6	1423.9	1442.6
35°	1355.3	1349.0	1338.8	1365.5	1379.1
37.5°	1289.5	1270.2	1253.8	1269.6	1275.3
40°	1190.3	1175.5	1137.0	1138.7	1130.7
42.5°	1068.3	1057.6	983.8	970.8	948.7
45°	910.7	911.3	823.9	816.6	781.4
47.5°	727.5	759.9	683.9	675.4	623.2
50°	556.9	615.3	568.2	554.6	485.4
52.5°	417.9	503.5	488.8	459.3	364.1
55°	327.8	414.5	425.3	383.3	284.1
57.5°	246.7	341.4	358.9	324.4	219.5
60°	183.2	287.5	292.6	279.0	169.6
62.5°	136.1	244.4	237.6	239.3	125.9
65°	99.8	208.1	188.8	207.5	97.0
67.5°	81.7	180.3	146.9	179.8	78.8
70°	71.4	159.9	109.4	158.2	71.4
72.5°	69.2	146.9	86.8	140.6	69.7
75°	69.7	131.0	65.8	122.5	70.3
77.5°	64.1	107.7	49.9	104.3	66.9
80°	57.3	81.7	38.0	82.8	60.1
82.5°	48.8	59.5	30.6	61.2	50.5
85°	33.5	43.7	28.4	43.7	35.2
87.5°	15.9	26.1	17.6	25.0	18.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)