

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: P294099

Luminaire Tested: **24GR-LD5-34-A19/156-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294099
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-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2907.0 lumens
Efficiency: N/A
Efficacy: 126.0 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

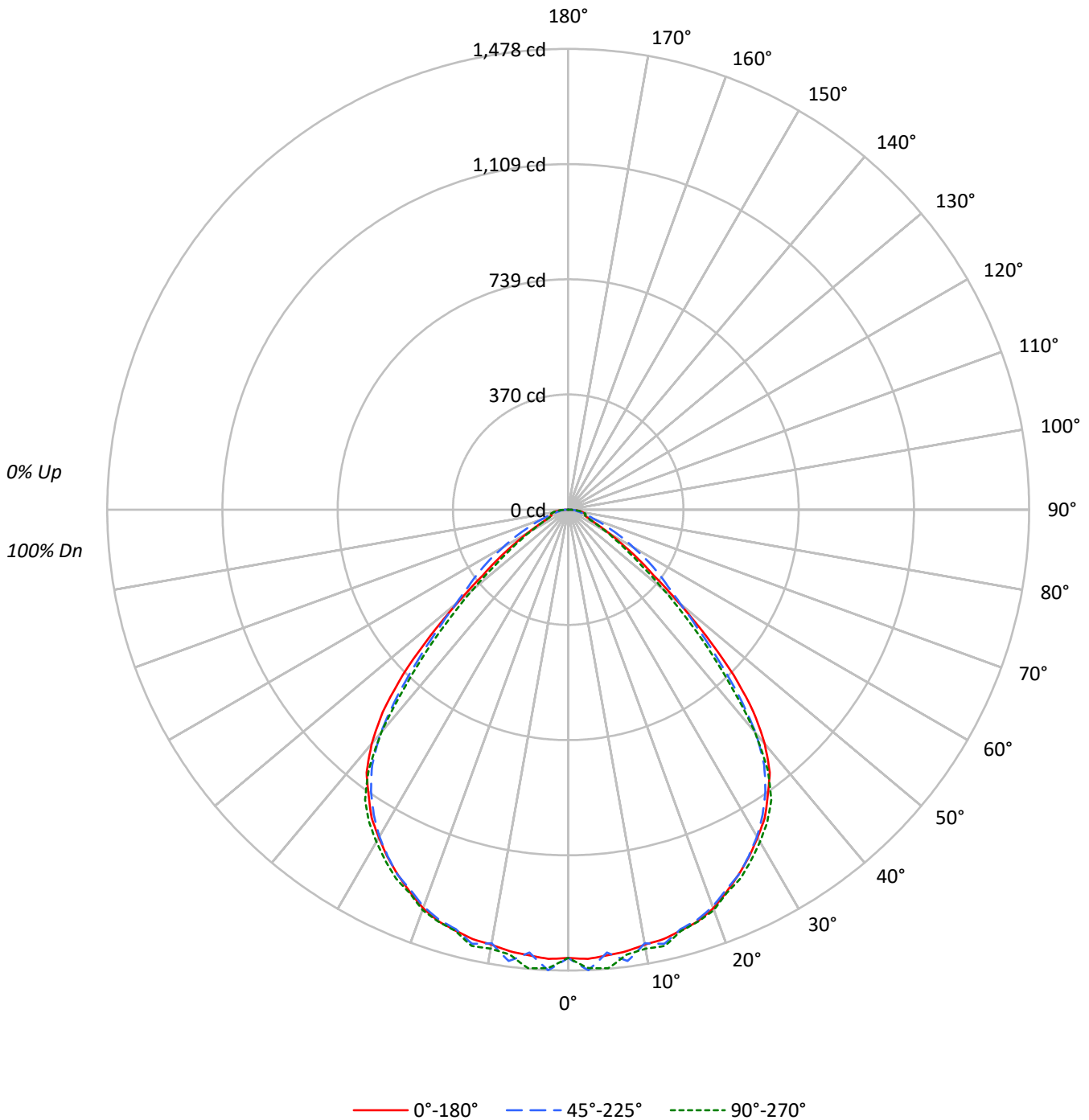
Input Watts (W): 23.064
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1934	1934	1934
5°	1938	1926	1994
10°	1935	1929	1953
15°	1946	1940	1948
20°	1948	1940	1956
25°	1918	1919	1938
30°	1886	1880	1911
35°	1833	1810	1865
40°	1721	1644	1635
45°	1427	1291	1224
50°	960	979	836
55°	633	821	549
60°	406	648	376
65°	262	495	254
70°	231	354	231
75°	298	282	301
80°	366	243	384
85°	425	360	446



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.6	4.7
10°-20°	395.2	13.6
20°-30°	594.9	20.5
30°-40°	689.6	23.7
40°-50°	538.7	18.5
50°-60°	287.6	9.9
60°-70°	147.9	5.1
70°-80°	83.7	2.9
80°-90°	31.8	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°	1127.8	38.8
0°-40°	1817.3	62.5
0°-60°	2643.6	90.9
0°-90°	2907.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2907.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1437	1437	1437	1437	1437	
5°	1435	1475	1426	1465	1476	136
15°	1397	1406	1393	1402	1398	395
25°	1292	1288	1293	1291	1305	595
35°	1116	1111	1102	1124	1135	696
45°	750	750	678	672	643	565
55°	270	341	350	316	234	249
65°	82	171	156	171	80	90
75°	57	108	54	101	58	58
85°	28	36	23	36	29	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1437.4	1437.4	1437.4	1437.4	1437.4
2.5°	1442.1	1468.2	1478.5	1465.9	1471.5
5°	1435.1	1475.2	1425.8	1465.0	1476.2
7.5°	1428.6	1424.4	1460.3	1423.0	1438.8
10°	1416.4	1419.2	1412.2	1438.8	1429.5
12.5°	1410.8	1427.2	1425.8	1412.2	1432.8
15°	1397.3	1406.1	1392.6	1401.5	1398.2
17.5°	1383.7	1379.5	1378.1	1381.9	1385.1
20°	1360.4	1346.4	1354.8	1355.7	1366.0
22.5°	1326.8	1318.4	1320.2	1328.7	1329.6
25°	1291.8	1287.6	1292.7	1290.8	1305.3
27.5°	1255.4	1249.8	1253.0	1260.0	1268.9
30°	1213.8	1212.4	1210.1	1216.1	1229.7
32.5°	1172.7	1161.5	1159.7	1172.3	1187.7
35°	1115.8	1110.6	1102.2	1124.2	1135.4
37.5°	1061.6	1045.7	1032.2	1045.3	1049.9
40°	979.9	967.8	936.0	937.4	930.9
42.5°	879.5	870.7	810.0	799.2	781.0
45°	749.8	750.2	678.3	672.3	643.3
47.5°	599.0	625.6	563.0	556.0	513.1
50°	458.4	506.5	467.8	456.6	399.6
52.5°	344.1	414.6	402.4	378.1	299.7
55°	269.8	341.3	350.1	315.6	233.9
57.5°	203.1	281.0	295.5	267.0	180.7
60°	150.8	236.7	240.9	229.7	139.6
62.5°	112.0	201.2	195.6	197.0	103.6
65°	82.2	171.3	155.5	170.9	79.8
67.5°	67.2	148.5	120.9	148.0	64.9
70°	58.8	131.7	90.1	130.3	58.8
72.5°	57.0	120.9	71.4	115.8	57.4
75°	57.4	107.8	54.2	100.8	57.9
77.5°	52.8	88.7	41.1	85.9	55.1
80°	47.2	67.2	31.3	68.2	49.5
82.5°	40.1	49.0	25.2	50.4	41.5
85°	27.5	35.9	23.3	35.9	28.9
87.5°	13.1	21.5	14.5	20.5	14.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)