

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: P293967

Luminaire Tested: **24GR-LD5-30-A19/156-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293967
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-LD5-30-A19/156-UNV-L82765-W2A1-U-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3054.0 lumens
Efficiency: N/A
Efficacy: 149.3 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

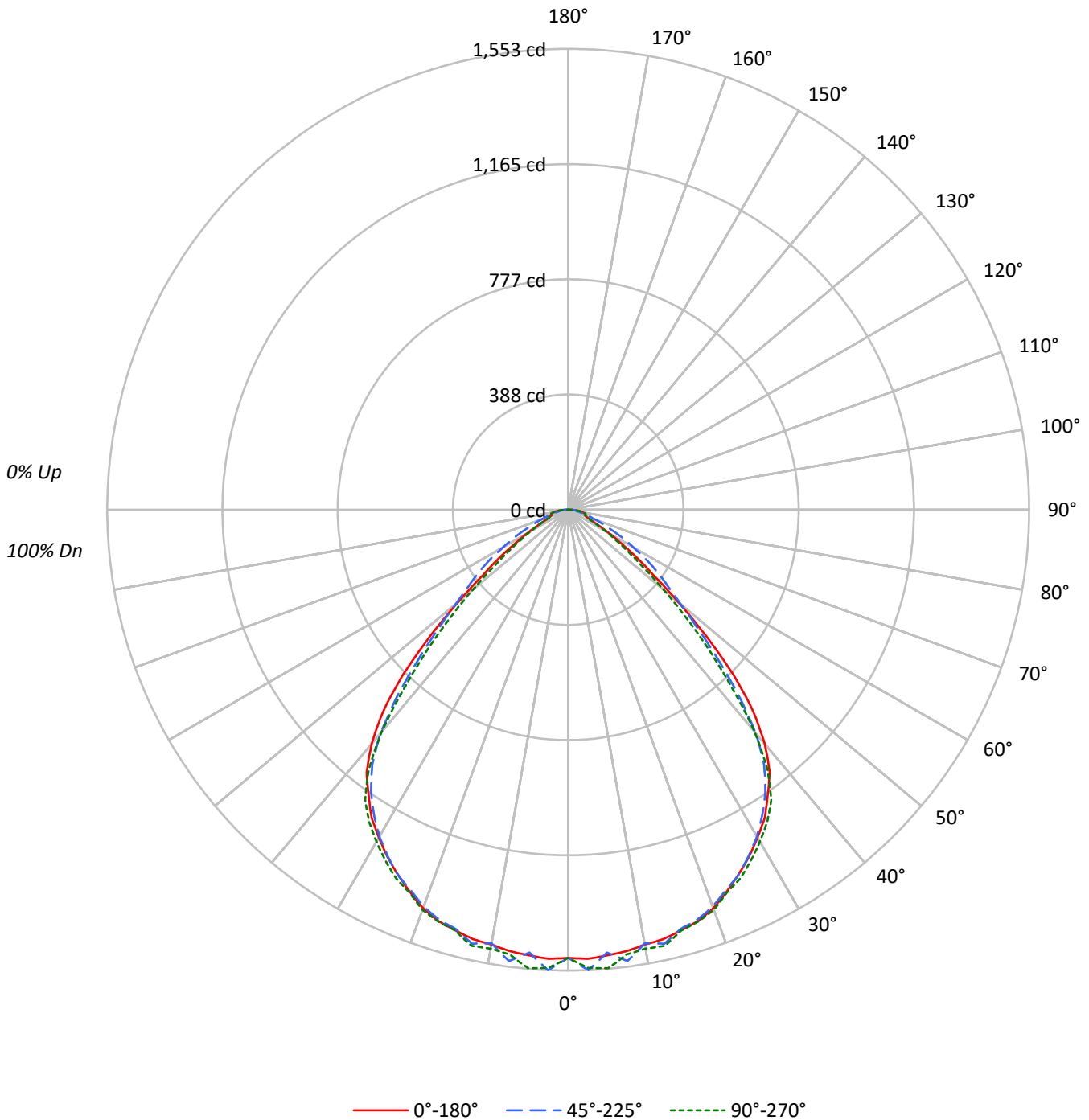
Input Watts (W): 20.46
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2032	2032	2032
5°	2036	2023	2095
10°	2033	2027	2052
15°	2045	2038	2046
20°	2046	2038	2055
25°	2015	2016	2036
30°	1981	1975	2007
35°	1925	1902	1959
40°	1808	1727	1718
45°	1499	1356	1286
50°	1008	1029	879
55°	665	863	576
60°	426	681	394
65°	275	520	267
70°	243	373	243
75°	313	296	316
80°	384	255	403
85°	446	378	469



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.6	4.7
10°-20°	415.2	13.6
20°-30°	625.0	20.5
30°-40°	724.4	23.7
40°-50°	565.9	18.5
50°-60°	302.2	9.9
60°-70°	155.4	5.1
70°-80°	87.9	2.9
80°-90°	33.4	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°	1184.8	38.8
0°-40°	1909.2	62.5
0°-60°	2777.3	90.9
0°-90°	3054.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3054.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1510	1510	1510	1510	1510	
5°	1508	1550	1498	1539	1551	143
15°	1468	1477	1463	1472	1469	415
25°	1357	1353	1358	1356	1371	625
35°	1172	1167	1158	1181	1193	731
45°	788	788	713	706	676	594
55°	284	358	368	332	246	262
65°	86	180	163	180	84	95
75°	60	113	57	106	61	61
85°	29	38	24	38	30	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1510.1	1510.1	1510.1	1510.1	1510.1
2.5°	1515.0	1542.5	1553.3	1540.0	1545.9
5°	1507.7	1549.8	1497.9	1539.1	1550.8
7.5°	1500.8	1496.4	1534.1	1494.9	1511.6
10°	1488.0	1491.0	1483.6	1511.6	1501.8
12.5°	1482.2	1499.3	1497.9	1483.6	1505.2
15°	1467.9	1477.3	1463.0	1472.4	1468.9
17.5°	1453.7	1449.3	1447.8	1451.8	1455.2
20°	1429.2	1414.5	1423.3	1424.3	1435.1
22.5°	1393.9	1385.0	1387.0	1395.8	1396.8
25°	1357.1	1352.7	1358.1	1356.1	1371.3
27.5°	1318.8	1313.0	1316.4	1323.7	1333.1
30°	1275.2	1273.7	1271.3	1277.6	1291.9
32.5°	1232.0	1220.3	1218.3	1231.5	1247.7
35°	1172.2	1166.8	1158.0	1181.0	1192.8
37.5°	1115.3	1098.6	1084.4	1098.1	1103.0
40°	1029.5	1016.7	983.4	984.8	978.0
42.5°	924.0	914.7	850.9	839.7	820.5
45°	787.7	788.2	712.6	706.3	675.8
47.5°	629.3	657.2	591.5	584.1	539.0
50°	481.6	532.1	491.4	479.7	419.8
52.5°	361.5	435.5	422.8	397.3	314.9
55°	283.5	358.5	367.8	331.5	245.7
57.5°	213.3	295.3	310.5	280.5	189.8
60°	158.4	248.7	253.1	241.3	146.6
62.5°	117.7	211.4	205.5	207.0	108.9
65°	86.3	180.0	163.3	179.5	83.9
67.5°	70.6	156.0	127.0	155.5	68.2
70°	61.8	138.3	94.7	136.8	61.8
72.5°	59.8	127.0	75.0	121.6	60.3
75°	60.3	113.3	56.9	105.9	60.8
77.5°	55.4	93.2	43.2	90.2	57.9
80°	49.5	70.6	32.9	71.6	52.0
82.5°	42.2	51.5	26.5	53.0	43.7
85°	28.9	37.8	24.5	37.8	30.4
87.5°	13.7	22.6	15.2	21.6	15.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)