

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: P292958

Luminaire Tested: **24GR-LD5-30-F1-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292958
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-12)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-30-F1-UNV-L82765-W2A1-U-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3096.0 lumens
Efficiency: N/A
Efficacy: 152.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

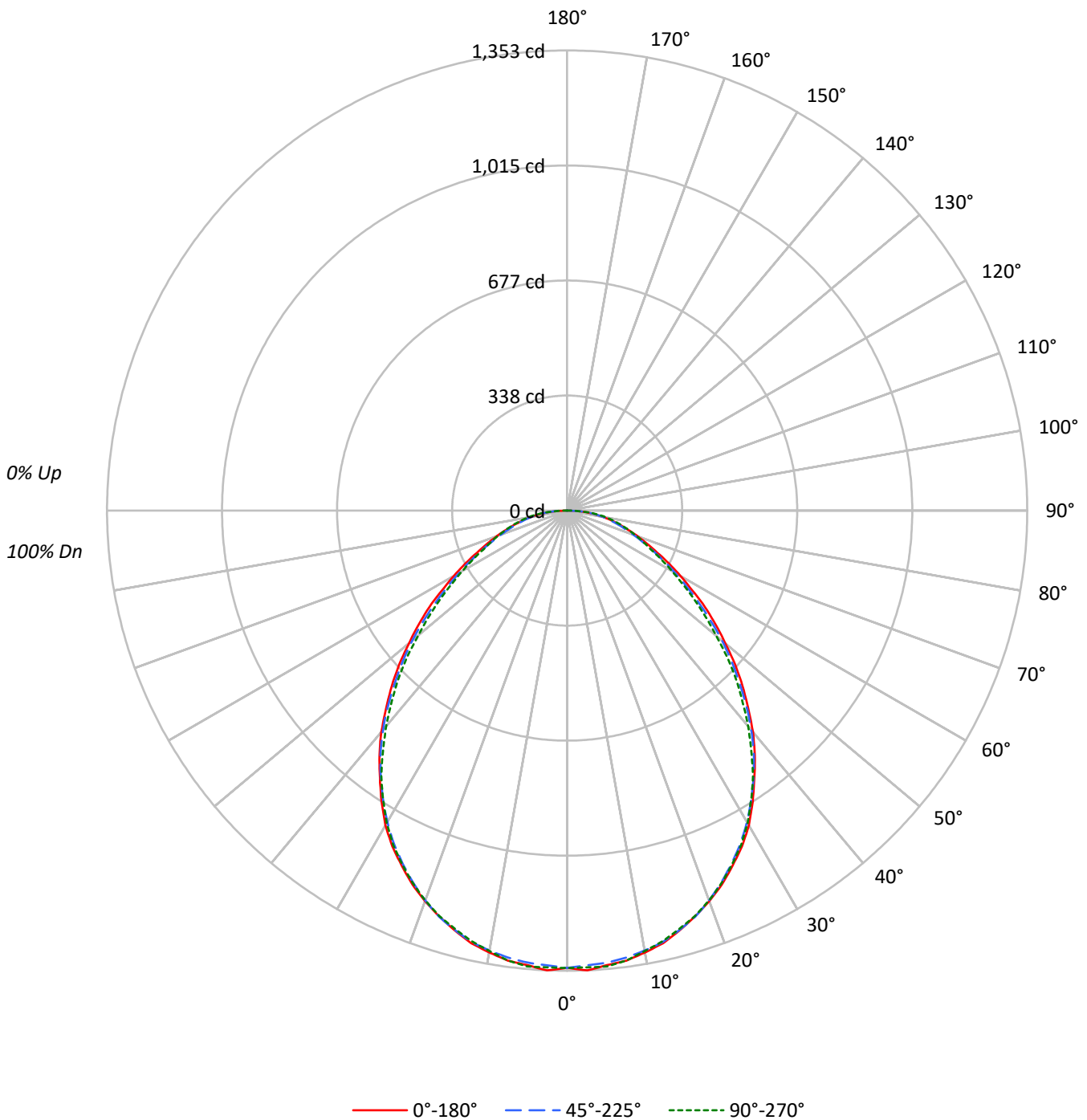
Input Watts (W): 20.367
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72					72			
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62					62			
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54					54			
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42					42			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37					37			
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	44	38	33	43	37	32	42	37	32	31					31			
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1809	1809	1809
5°	1812	1802	1817
10°	1802	1795	1796
15°	1780	1778	1774
20°	1750	1746	1746
25°	1709	1700	1704
30°	1660	1643	1648
35°	1577	1569	1565
40°	1493	1479	1454
45°	1388	1363	1337
50°	1271	1243	1196
55°	1161	1108	1071
60°	1034	985	959
65°	931	882	870
70°	864	812	844
75°	827	790	857
80°	826	826	915
85°	858	868	966



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.0	4.1
10°-20°	359.4	11.6
20°-30°	527.5	17.0
30°-40°	596.4	19.3
40°-50°	551.2	17.8
50°-60°	424.7	13.7
60°-70°	281.2	9.1
70°-80°	167.4	5.4
80°-90°	61.3	2.0
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°	1013.9	32.7
0°-40°	1610.3	52.0
0°-60°	2586.1	83.5
0°-90°	3096.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3096.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1345	1345	1345	1345	1345	
5°	1342	1342	1334	1335	1346	127
15°	1278	1275	1276	1276	1273	360
25°	1151	1148	1145	1144	1148	530
35°	960	958	955	951	953	601
45°	729	724	716	704	702	562
55°	495	485	472	460	457	441
65°	292	288	277	275	273	293
75°	159	155	152	159	165	170
85°	56	52	56	62	63	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1344.8	1344.8	1344.8	1344.8	1344.8
2.5°	1353.1	1346.1	1338.4	1338.4	1344.2
5°	1341.6	1341.6	1334.0	1334.6	1345.5
7.5°	1334.6	1330.8	1325.7	1325.7	1334.0
10°	1319.3	1316.1	1313.5	1312.3	1314.8
12.5°	1302.7	1297.6	1299.5	1297.6	1296.9
15°	1277.8	1275.2	1276.5	1275.9	1273.3
17.5°	1251.0	1249.7	1252.2	1247.8	1249.7
20°	1222.2	1218.4	1219.7	1217.1	1219.7
22.5°	1189.7	1187.1	1183.9	1180.7	1185.8
25°	1151.3	1148.1	1145.0	1143.7	1147.5
27.5°	1113.0	1107.9	1103.4	1102.2	1107.9
30°	1068.3	1062.6	1057.5	1056.2	1060.7
32.5°	1015.3	1014.0	1007.7	1005.1	1007.0
35°	959.8	958.5	955.3	950.8	952.7
37.5°	906.8	906.1	901.7	894.0	888.9
40°	849.9	845.5	842.3	831.4	827.6
42.5°	787.4	786.1	780.3	768.2	763.7
45°	729.2	724.1	716.5	703.7	702.4
47.5°	669.2	662.2	655.2	639.2	638.6
50°	607.3	602.2	593.9	577.9	571.5
52.5°	549.8	542.8	531.3	516.0	512.8
55°	494.9	484.7	472.5	459.8	456.6
57.5°	436.1	431.7	417.0	406.8	402.9
60°	384.4	380.6	365.9	356.3	356.3
62.5°	337.8	332.1	319.3	312.9	312.9
65°	292.5	288.0	277.1	274.6	273.3
67.5°	253.5	247.8	240.1	239.5	242.7
70°	219.7	212.6	206.3	212.6	214.6
72.5°	187.7	183.3	177.5	185.8	189.7
75°	159.0	155.2	152.0	159.0	164.8
77.5°	132.8	129.0	129.0	136.7	141.8
80°	106.6	104.1	106.6	113.0	118.1
82.5°	81.7	79.8	83.0	89.4	92.6
85°	55.6	52.4	56.2	61.9	62.6
87.5°	26.2	25.5	28.1	31.9	31.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)