

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: P293208

Luminaire Tested: **24GR-LD5-30-F125-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293208
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33304)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-30-F125-UNV-L82765-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2977.0 lumens
Efficiency: N/A
Efficacy: 148.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

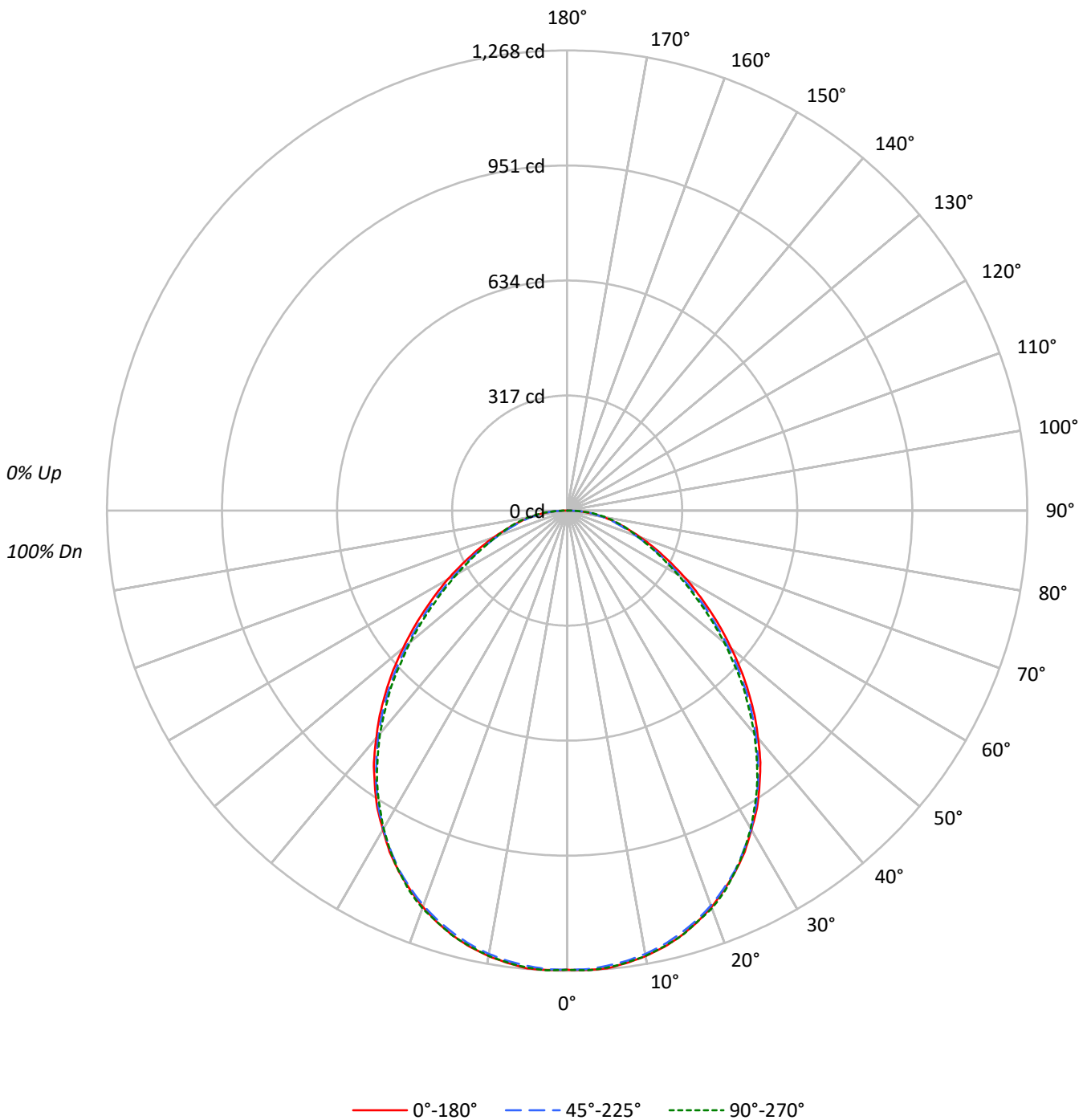
Input Watts (W): 20.088
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1702	1702	1702
5°	1710	1701	1708
10°	1703	1695	1702
15°	1690	1681	1691
20°	1665	1658	1670
25°	1629	1625	1628
30°	1577	1575	1571
35°	1518	1507	1500
40°	1437	1420	1409
45°	1344	1319	1303
50°	1235	1202	1181
55°	1126	1085	1053
60°	1023	968	943
65°	921	869	855
70°	844	789	811
75°	789	752	808
80°	783	768	844
85°	798	804	920



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.7	4.0
10°-20°	340.4	11.4
20°-30°	502.9	16.9
30°-40°	571.8	19.2
40°-50°	533.9	17.9
50°-60°	415.2	13.9
60°-70°	275.5	9.3
70°-80°	159.4	5.4
80°-90°	58.0	1.9
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°	963.1	32.4
0°-40°	1534.9	51.6
0°-60°	2484.0	83.4
0°-90°	2977.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2977.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1265	1265	1265	1265	1265	
5°	1266	1260	1259	1262	1264	120
15°	1213	1207	1207	1206	1214	342
25°	1097	1093	1094	1092	1097	504
35°	924	920	917	911	913	577
45°	706	701	693	684	685	544
55°	480	473	462	450	449	431
65°	289	281	273	268	268	289
75°	152	148	145	151	155	162
85°	52	51	52	59	60	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1265.2	1265.2	1265.2	1265.2	1265.2
2.5°	1267.1	1263.4	1265.2	1263.8	1268.0
5°	1266.2	1259.6	1259.2	1261.5	1264.3
7.5°	1257.3	1250.3	1251.7	1251.7	1256.4
10°	1246.6	1239.6	1240.6	1241.0	1246.1
12.5°	1232.2	1225.2	1225.7	1225.2	1230.3
15°	1213.1	1207.1	1206.6	1206.1	1214.0
17.5°	1189.8	1181.5	1184.3	1184.7	1188.9
20°	1162.9	1156.3	1158.2	1157.7	1166.6
22.5°	1130.7	1126.1	1127.5	1126.6	1134.9
25°	1097.2	1092.6	1094.4	1092.1	1096.8
27.5°	1059.6	1056.3	1054.4	1053.0	1056.3
30°	1015.3	1013.5	1013.5	1007.4	1011.2
32.5°	973.5	967.4	967.4	965.1	962.8
35°	924.1	919.5	917.2	910.6	913.4
37.5°	874.8	864.1	863.2	858.1	858.1
40°	818.0	812.0	808.7	803.2	802.2
42.5°	764.1	758.0	752.4	743.1	741.3
45°	706.4	700.8	693.3	684.5	685.0
47.5°	649.1	641.2	634.2	623.5	622.1
50°	590.0	584.5	574.2	564.9	564.4
52.5°	534.7	525.8	516.5	505.3	505.3
55°	480.2	473.2	462.5	450.4	449.0
57.5°	428.1	421.6	409.5	400.6	398.3
60°	380.2	370.9	359.7	352.3	350.4
62.5°	332.2	323.9	315.5	308.0	307.6
65°	289.4	280.6	273.1	268.0	268.5
67.5°	250.8	243.4	235.0	233.6	234.1
70°	214.5	206.6	200.6	203.8	206.1
72.5°	180.1	175.9	171.7	176.4	179.6
75°	151.7	148.0	144.7	151.2	155.4
77.5°	125.6	122.8	122.4	128.0	131.7
80°	101.0	97.7	99.1	105.6	108.9
82.5°	76.8	74.5	74.9	82.8	85.2
85°	51.7	50.7	52.1	59.1	59.6
87.5°	27.5	27.5	28.4	32.6	31.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)