

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: P290927

Luminaire Tested: **14GR-LD5-36-F125-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290927
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33313)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-36-F125-UNV-L92765-W2A1-U-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3379.0 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

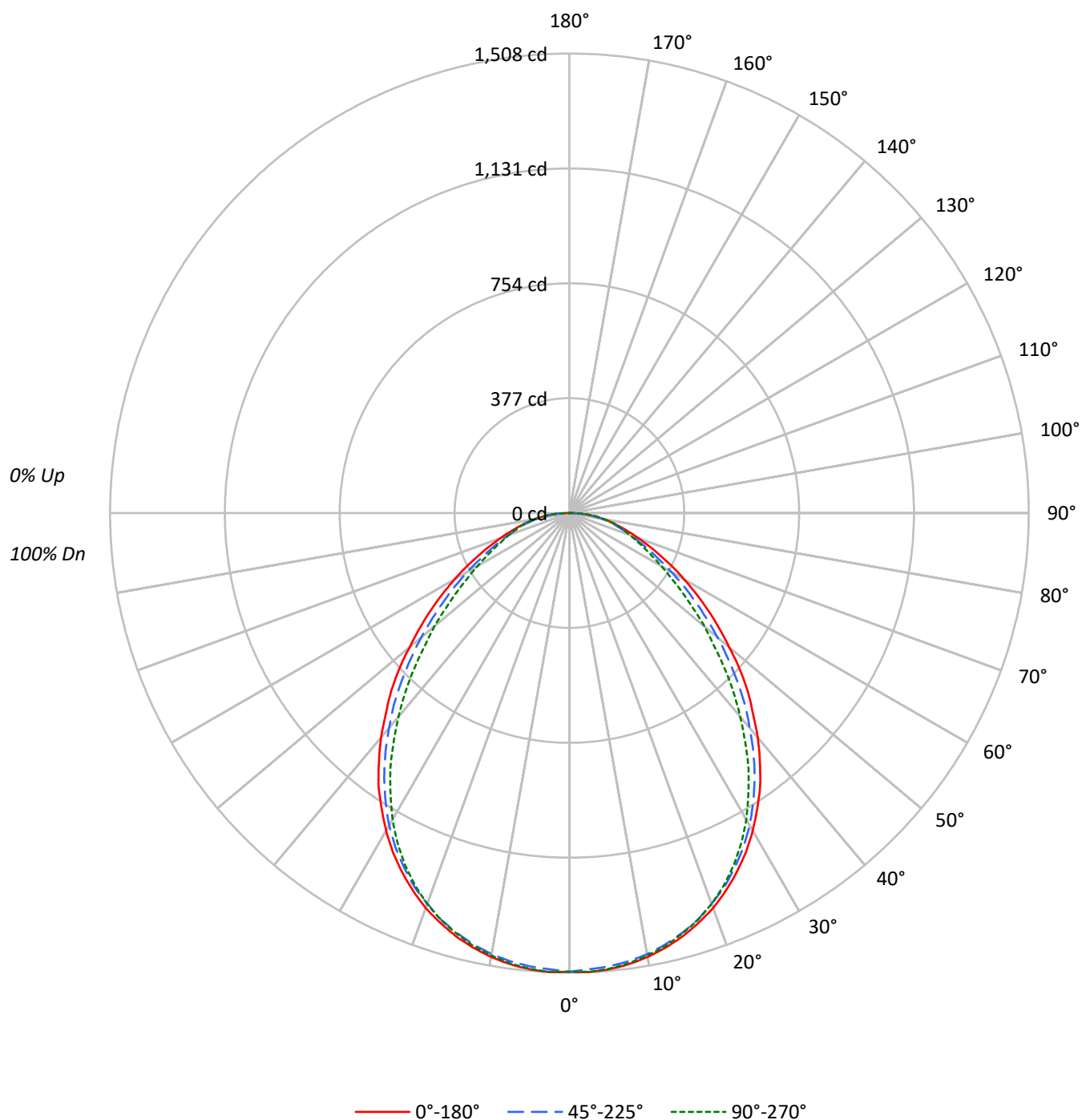
Input Watts (W): 29.946
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91
2	101	93	87	81	98	91	85	80	88	83	78		84	80	77		81
3	92	83	75	69	90	81	74	68	78	72	67		75	70	66		73
4	85	74	66	59	83	73	65	59	70	64	58		68	62	58		66
5	79	67	58	52	77	66	58	52	64	57	51		62	55	51		60
6	73	60	52	46	71	60	52	46	58	51	45		56	50	45		55
7	68	55	47	41	66	54	47	41	53	46	41		51	45	40		50
8	64	51	43	37	62	50	42	37	49	42	37		47	41	36		46
9	60	47	39	34	58	46	39	33	45	38	33		44	38	33		43
10	56	43	36	31	55	43	35	31	42	35	30		41	35	30		40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4051	4051	4051
5°	4060	4034	4056
10°	4042	4016	4029
15°	4006	3975	3982
20°	3950	3906	3909
25°	3860	3812	3787
30°	3741	3677	3608
35°	3588	3483	3369
40°	3379	3235	3065
45°	3151	2961	2740
50°	2866	2656	2421
55°	2609	2355	2110
60°	2339	2075	1874
65°	2086	1848	1722
70°	1897	1685	1666
75°	1773	1641	1724
80°	1782	1695	1795
85°	1862	1738	1982



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.3	4.2
10°-20°	403.5	11.9
20°-30°	591.6	17.5
30°-40°	660.4	19.5
40°-50°	597.9	17.7
50°-60°	451.4	13.4
60°-70°	295.1	8.7
70°-80°	173.3	5.1
80°-90°	63.4	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°	1137.5	33.7
0°-40°	1797.9	53.2
0°-60°	2847.1	84.3
0°-90°	3379.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3379.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1505	1505	1505	1505	1505	
5°	1503	1500	1493	1502	1501	143
15°	1438	1436	1427	1435	1429	405
25°	1300	1295	1284	1282	1275	598
35°	1092	1083	1060	1037	1026	680
45°	828	815	778	736	720	636
55°	556	543	502	462	450	497
65°	328	317	290	274	270	329
75°	170	166	158	161	166	183
85°	60	58	56	63	64	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1505.3	1505.3	1505.3	1505.3	1505.3
2.5°	1507.7	1505.3	1498.2	1507.7	1506.9
5°	1502.9	1499.8	1493.4	1502.2	1501.4
7.5°	1493.4	1490.3	1483.9	1491.8	1490.3
10°	1479.2	1476.0	1469.6	1478.4	1474.4
12.5°	1460.9	1457.7	1450.6	1458.5	1455.4
15°	1437.9	1435.5	1426.8	1434.7	1429.2
17.5°	1410.1	1406.2	1399.8	1404.6	1400.6
20°	1379.2	1374.5	1364.1	1368.9	1364.9
22.5°	1341.9	1335.6	1328.5	1328.5	1322.9
25°	1299.9	1295.1	1284.0	1281.7	1275.3
27.5°	1254.7	1250.7	1236.5	1232.5	1221.4
30°	1203.9	1198.4	1183.3	1170.6	1161.1
32.5°	1147.6	1143.7	1123.0	1106.4	1092.9
35°	1092.1	1082.6	1060.4	1036.6	1025.5
37.5°	1027.1	1019.9	992.2	962.8	947.8
40°	962.0	953.3	920.8	888.3	872.4
42.5°	891.5	883.5	852.6	813.7	797.1
45°	828.0	815.3	778.0	736.0	720.1
47.5°	758.2	744.7	705.1	660.7	642.4
50°	684.5	675.7	634.5	591.7	578.2
52.5°	618.6	605.1	566.3	524.2	510.0
55°	556.0	543.3	502.0	462.4	449.7
57.5°	493.3	479.0	443.3	407.7	395.0
60°	434.6	420.3	385.5	356.1	348.2
62.5°	381.5	365.6	334.7	311.7	306.1
65°	327.6	317.2	290.3	273.6	270.5
67.5°	282.3	269.7	248.2	240.3	238.7
70°	241.1	232.4	214.1	211.8	211.8
72.5°	203.8	196.7	183.2	184.8	187.2
75°	170.5	165.8	157.8	161.0	165.8
77.5°	142.0	137.2	132.4	137.2	140.4
80°	115.0	110.2	109.4	113.4	115.8
82.5°	86.4	82.5	83.3	89.6	92.0
85°	60.3	57.9	56.3	63.4	64.2
87.5°	30.9	29.3	28.6	34.1	32.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)