

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: P291020

Luminaire Tested: **14GR-LD5-36-A-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291020
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33314)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-36-A-UNV-L82765-W2A1-U-2700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3390.0 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

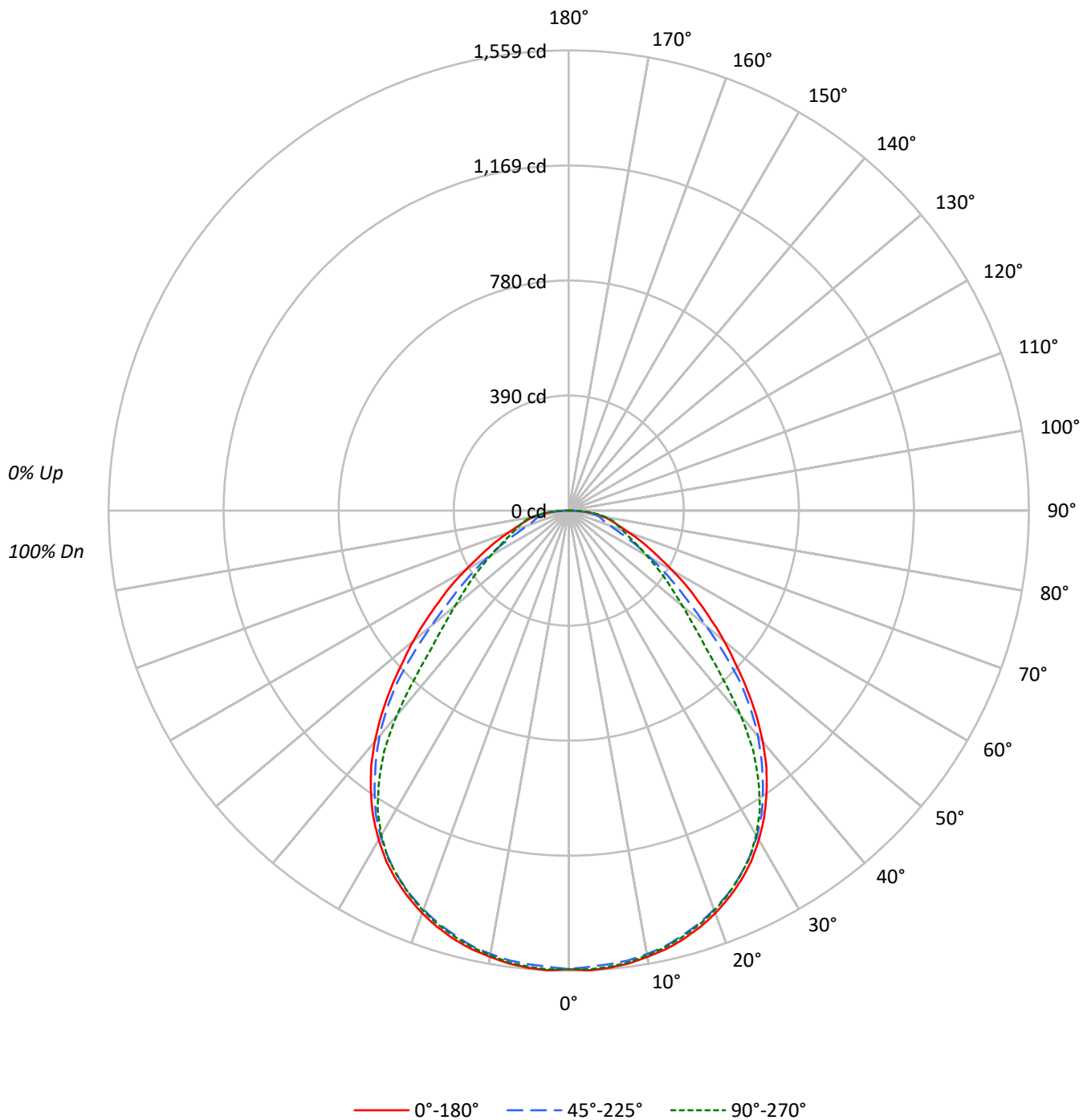
Input Watts (W): 29.295
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10	0		
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74		
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64		
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56		
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50		
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44		
7	69	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42	40		
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36		
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33		
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31	30		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4180	4180	4180
5°	4200	4169	4190
10°	4195	4170	4180
15°	4187	4150	4163
20°	4158	4119	4131
25°	4103	4063	4065
30°	4002	3961	3944
35°	3838	3769	3683
40°	3593	3502	3186
45°	3245	3122	2490
50°	2878	2535	2106
55°	2512	2080	1858
60°	2178	1712	1640
65°	1910	1373	1514
70°	1703	1164	1524
75°	1661	1228	1703
80°	1843	1550	1953
85°	1920	1652	2285



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.4	4.3
10°-20°	422.2	12.5
20°-30°	631.6	18.6
30°-40°	713.0	21.0
40°-50°	604.9	17.8
50°-60°	409.3	12.1
60°-70°	244.3	7.2
70°-80°	153.0	4.5
80°-90°	64.4	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°	1201.2	35.4
0°-40°	1914.2	56.5
0°-60°	2928.4	86.4
0°-90°	3390.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3390.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1553	1553	1553	1553	1553	
5°	1555	1550	1543	1554	1551	148
15°	1503	1500	1490	1500	1494	424
25°	1382	1377	1368	1375	1369	635
35°	1168	1161	1147	1137	1121	728
45°	853	856	820	703	654	657
55°	535	510	443	397	396	482
65°	300	249	216	230	238	300
75°	160	142	118	156	164	172
85°	62	59	54	69	74	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1553.4	1553.4	1553.4	1553.4	1553.4
2.5°	1559.0	1554.2	1547.1	1556.6	1555.8
5°	1555.0	1550.3	1543.2	1554.2	1551.1
7.5°	1547.9	1544.0	1536.9	1547.1	1544.0
10°	1535.3	1532.2	1525.9	1534.6	1529.8
12.5°	1522.0	1519.6	1511.7	1519.6	1514.9
15°	1503.1	1499.9	1489.7	1499.9	1494.4
17.5°	1479.4	1475.5	1466.8	1475.5	1470.8
20°	1451.9	1447.2	1438.5	1447.2	1442.4
22.5°	1418.8	1414.9	1407.0	1414.9	1408.6
25°	1381.8	1377.1	1368.4	1374.7	1369.2
27.5°	1339.3	1333.0	1325.1	1329.8	1326.7
30°	1288.1	1280.2	1274.7	1274.7	1269.2
32.5°	1232.2	1226.7	1217.2	1211.7	1204.7
35°	1168.4	1160.6	1147.2	1136.9	1121.2
37.5°	1099.9	1090.5	1073.9	1048.0	1026.7
40°	1022.8	1011.0	996.8	945.6	907.0
42.5°	940.1	937.7	913.3	825.9	772.4
45°	852.7	855.9	820.4	703.1	654.3
47.5°	764.5	775.5	711.0	596.0	570.8
50°	687.4	691.3	605.5	517.3	503.1
52.5°	607.8	601.5	516.5	455.1	444.9
55°	535.4	510.2	443.3	396.8	396.0
57.5°	471.6	425.2	378.7	344.1	348.0
60°	404.7	352.7	318.1	299.2	304.7
62.5°	345.6	296.0	265.3	259.8	269.3
65°	300.0	248.8	215.7	229.9	237.8
67.5°	256.7	213.4	175.6	209.4	212.6
70°	216.5	185.0	148.0	192.9	193.7
72.5°	183.5	163.8	128.3	174.8	177.2
75°	159.8	142.5	118.1	155.9	163.8
77.5°	140.1	122.0	109.4	134.6	148.0
80°	118.9	98.4	100.0	112.6	126.0
82.5°	91.3	76.4	79.5	92.9	102.4
85°	62.2	59.1	53.5	69.3	74.0
87.5°	33.1	31.5	27.6	39.4	37.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)