

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: P291319

Luminaire Tested: **14GR-LD5-36-A125-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291319
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33315)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-36-A125-UNV-L92765-W2A1-U-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3418.0 lumens
Efficiency: N/A
Efficacy: 114.1 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

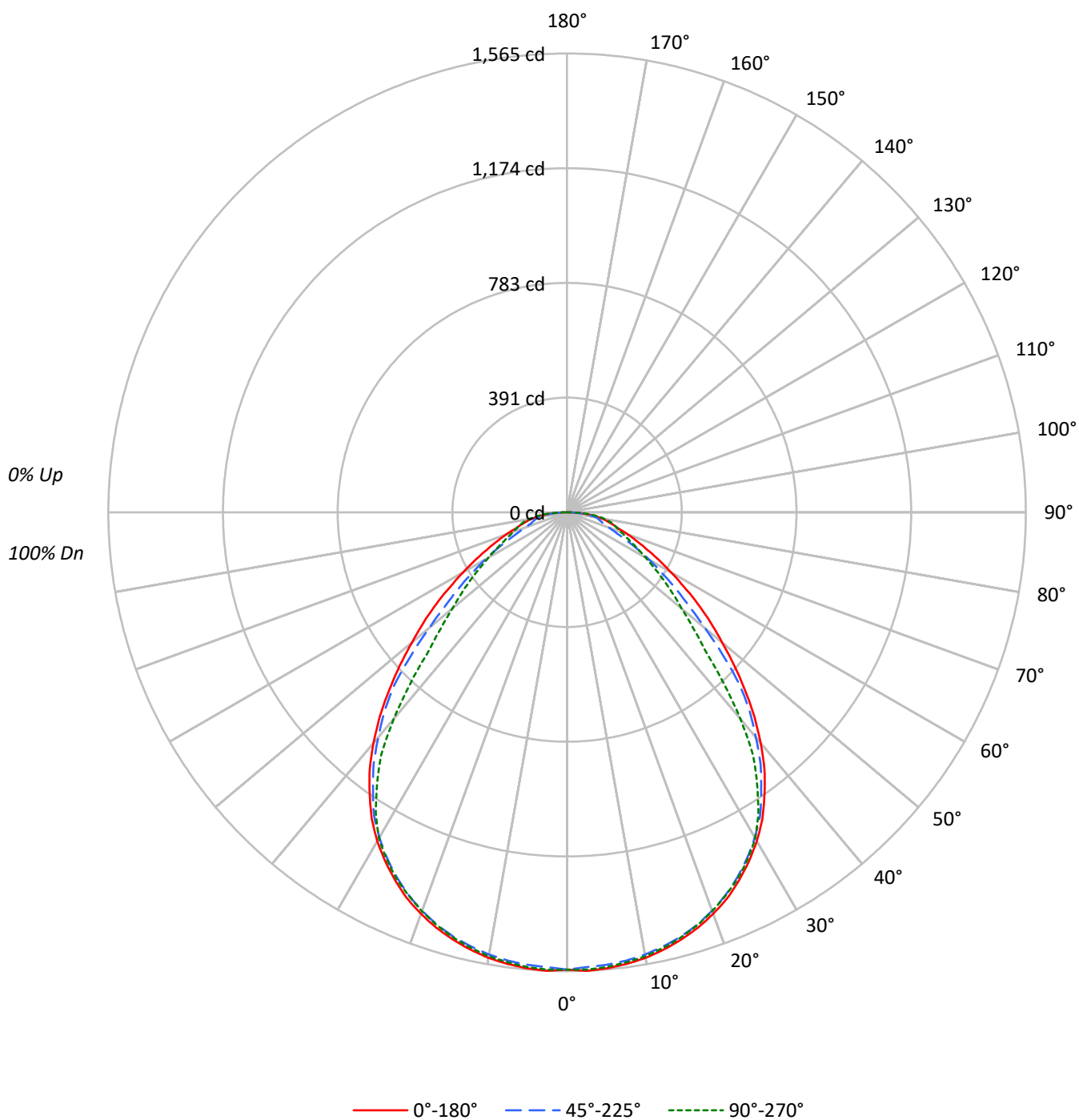
Input Watts (W): 29.946
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86			
2	101	94	88	82	99	92	86	82	88	84	80	85	81	78	82	79	76	74			
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64			
4	86	75	67	61	84	74	66	61	71	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	56	48	43	67	56	48	42	54	47	42	53	47	42	52	46	42	40			
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36			
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	33			
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	30			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4197	4197	4197
5°	4217	4185	4205
10°	4217	4184	4201
15°	4202	4175	4182
20°	4174	4142	4146
25°	4118	4080	4092
30°	4024	3979	3989
35°	3858	3793	3712
40°	3607	3518	3228
45°	3265	3172	2532
50°	2888	2566	2135
55°	2556	2109	1882
60°	2207	1745	1668
65°	1918	1389	1535
70°	1734	1192	1535
75°	1666	1245	1714
80°	1855	1585	2004
85°	1958	1689	2399



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.9	4.3
10°-20°	424.0	12.4
20°-30°	634.5	18.6
30°-40°	718.3	21.0
40°-50°	611.8	17.9
50°-60°	414.3	12.1
60°-70°	247.3	7.2
70°-80°	154.5	4.5
80°-90°	65.3	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°	1206.5	35.3
0°-40°	1924.8	56.3
0°-60°	2950.8	86.3
0°-90°	3418.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3418.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1560	1560	1560	1560	1560	
5°	1561	1557	1549	1559	1557	148
15°	1508	1503	1499	1508	1501	425
25°	1387	1383	1374	1380	1378	638
35°	1174	1167	1154	1143	1130	732
45°	858	860	833	710	665	662
55°	545	515	450	401	401	487
65°	301	251	218	233	241	304
75°	160	144	120	157	165	173
85°	63	59	55	69	78	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1559.7	1559.7	1559.7	1559.7	1559.7
2.5°	1565.3	1561.3	1552.6	1562.9	1561.3
5°	1561.3	1557.4	1549.4	1558.9	1556.6
7.5°	1553.4	1549.4	1542.3	1551.8	1547.8
10°	1543.1	1538.3	1531.2	1541.5	1537.5
12.5°	1527.2	1522.5	1516.1	1526.4	1520.9
15°	1508.2	1502.6	1498.7	1508.2	1501.1
17.5°	1485.2	1480.4	1474.9	1484.4	1476.5
20°	1457.4	1453.5	1446.3	1451.9	1447.9
22.5°	1425.7	1420.2	1413.0	1419.4	1413.8
25°	1386.9	1382.9	1374.2	1380.5	1378.2
27.5°	1342.5	1340.1	1329.8	1337.7	1333.7
30°	1294.9	1288.6	1280.6	1283.0	1283.8
32.5°	1240.2	1232.3	1225.9	1220.4	1214.8
35°	1174.4	1167.2	1154.5	1142.6	1130.0
37.5°	1106.2	1096.7	1084.0	1057.8	1041.9
40°	1026.9	1022.1	1001.5	965.0	919.0
42.5°	946.0	941.2	923.0	841.3	791.4
45°	858.0	860.4	833.4	710.5	665.3
47.5°	773.9	780.3	721.6	606.6	582.8
50°	689.9	697.0	613.0	524.1	509.9
52.5°	616.1	610.6	522.6	459.9	453.6
55°	544.8	514.6	449.6	401.2	401.2
57.5°	471.8	429.0	382.2	351.3	351.3
60°	410.0	356.8	324.3	303.7	310.0
62.5°	352.9	296.6	268.8	264.8	272.8
65°	301.3	251.4	218.1	233.1	241.1
67.5°	259.3	214.9	179.2	210.9	215.7
70°	220.4	187.1	151.5	194.3	195.1
72.5°	184.8	164.9	130.0	176.0	179.2
75°	160.2	143.5	119.7	157.0	164.9
77.5°	140.4	122.9	110.2	135.6	150.7
80°	119.7	100.7	102.3	114.2	129.3
82.5°	92.0	77.7	80.9	93.6	105.5
85°	63.4	58.7	54.7	69.0	77.7
87.5°	34.1	31.7	27.8	38.9	39.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)