

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: P291157

Luminaire Tested: **14GR-LD5-28-A125-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291157
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-LD5-28-A125-UNV-L83050-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3061.0 lumens
Efficiency: N/A
Efficacy: 134.9 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

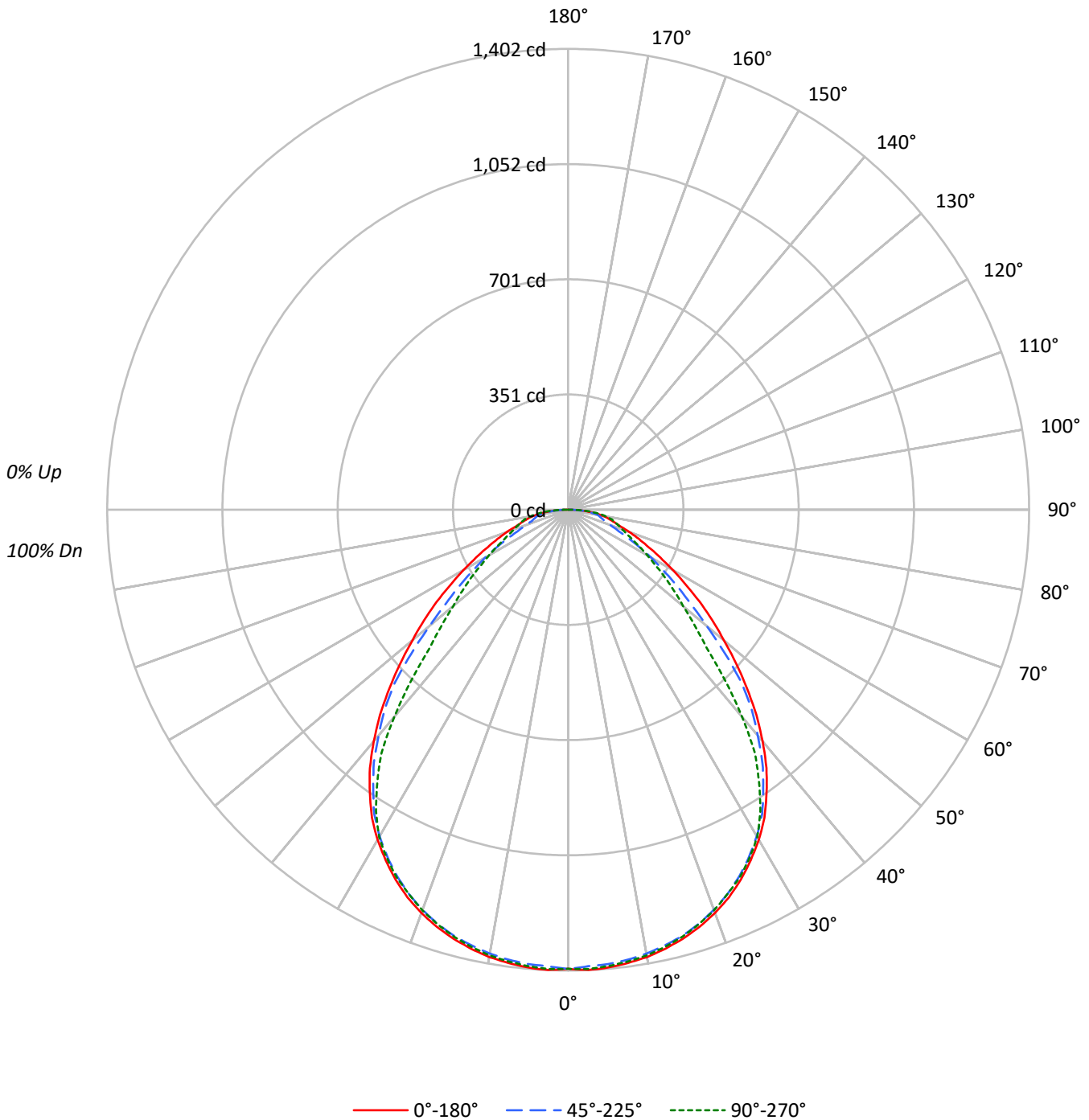
Input Watts (W): 22.692
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	94	88	82	99	92	86	82	88	84	80	85	81	78	82	79	76	74					74			
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56					56			
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50					50			
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44					44			
7	69	56	48	43	67	56	48	42	54	47	42	53	47	42	52	46	42	40					40			
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36					36			
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	33					33			
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	30					30			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3759	3759	3759
5°	3777	3748	3766
10°	3776	3747	3762
15°	3763	3739	3745
20°	3738	3709	3713
25°	3688	3654	3665
30°	3603	3564	3572
35°	3455	3397	3324
40°	3230	3151	2891
45°	2924	2840	2267
50°	2586	2298	1912
55°	2289	1889	1686
60°	1976	1563	1495
65°	1719	1244	1375
70°	1553	1067	1375
75°	1491	1115	1536
80°	1661	1420	1795
85°	1754	1513	2149



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.5	4.3
10°-20°	379.7	12.4
20°-30°	568.3	18.6
30°-40°	643.3	21.0
40°-50°	547.9	17.9
50°-60°	371.0	12.1
60°-70°	221.5	7.2
70°-80°	138.4	4.5
80°-90°	58.5	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°	1080.5	35.3
0°-40°	1723.7	56.3
0°-60°	2642.6	86.3
0°-90°	3061.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3061.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1397	1397	1397	1397	1397	
5°	1398	1395	1388	1396	1394	133
15°	1351	1346	1342	1351	1344	381
25°	1242	1238	1231	1236	1234	571
35°	1052	1045	1034	1023	1012	655
45°	768	770	746	636	596	593
55°	488	461	403	359	359	436
65°	270	225	195	209	216	272
75°	143	128	107	141	148	155
85°	57	52	49	62	70	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1396.8	1396.8	1396.8	1396.8	1396.8
2.5°	1401.8	1398.3	1390.4	1399.7	1398.3
5°	1398.3	1394.7	1387.6	1396.1	1394.0
7.5°	1391.1	1387.6	1381.2	1389.7	1386.2
10°	1381.9	1377.7	1371.3	1380.5	1376.9
12.5°	1367.7	1363.5	1357.8	1367.0	1362.0
15°	1350.7	1345.7	1342.2	1350.7	1344.3
17.5°	1330.1	1325.8	1320.8	1329.4	1322.3
20°	1305.2	1301.7	1295.3	1300.3	1296.7
22.5°	1276.8	1271.8	1265.5	1271.1	1266.2
25°	1242.0	1238.5	1230.7	1236.3	1234.2
27.5°	1202.3	1200.1	1190.9	1198.0	1194.4
30°	1159.6	1154.0	1146.9	1149.0	1149.7
32.5°	1110.6	1103.5	1097.9	1092.9	1087.9
35°	1051.7	1045.3	1034.0	1023.3	1011.9
37.5°	990.6	982.1	970.8	947.3	933.1
40°	919.6	915.4	896.9	864.2	823.0
42.5°	847.2	842.9	826.6	753.5	708.7
45°	768.4	770.5	746.3	636.3	595.8
47.5°	693.1	698.8	646.2	543.3	521.9
50°	617.8	624.2	548.9	469.4	456.6
52.5°	551.8	546.8	468.0	411.9	406.2
55°	487.9	460.9	402.6	359.3	359.3
57.5°	422.5	384.2	342.3	314.6	314.6
60°	367.1	319.6	290.4	272.0	277.7
62.5°	316.0	265.6	240.7	237.2	244.3
65°	269.9	225.1	195.3	208.8	215.9
67.5°	232.2	192.4	160.5	188.9	193.2
70°	197.4	167.6	135.6	174.0	174.7
72.5°	165.5	147.7	116.5	157.6	160.5
75°	143.4	128.5	107.2	140.6	147.7
77.5°	125.7	110.1	98.7	121.4	134.9
80°	107.2	90.2	91.6	102.3	115.8
82.5°	82.4	69.6	72.4	83.8	94.4
85°	56.8	52.5	49.0	61.8	69.6
87.5°	30.5	28.4	24.9	34.8	35.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)