

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: P291264

Luminaire Tested: **14GR-LD5-36-A125-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291264
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-L93050-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3143.0 lumens
Efficiency: N/A
Efficacy: 105.3 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

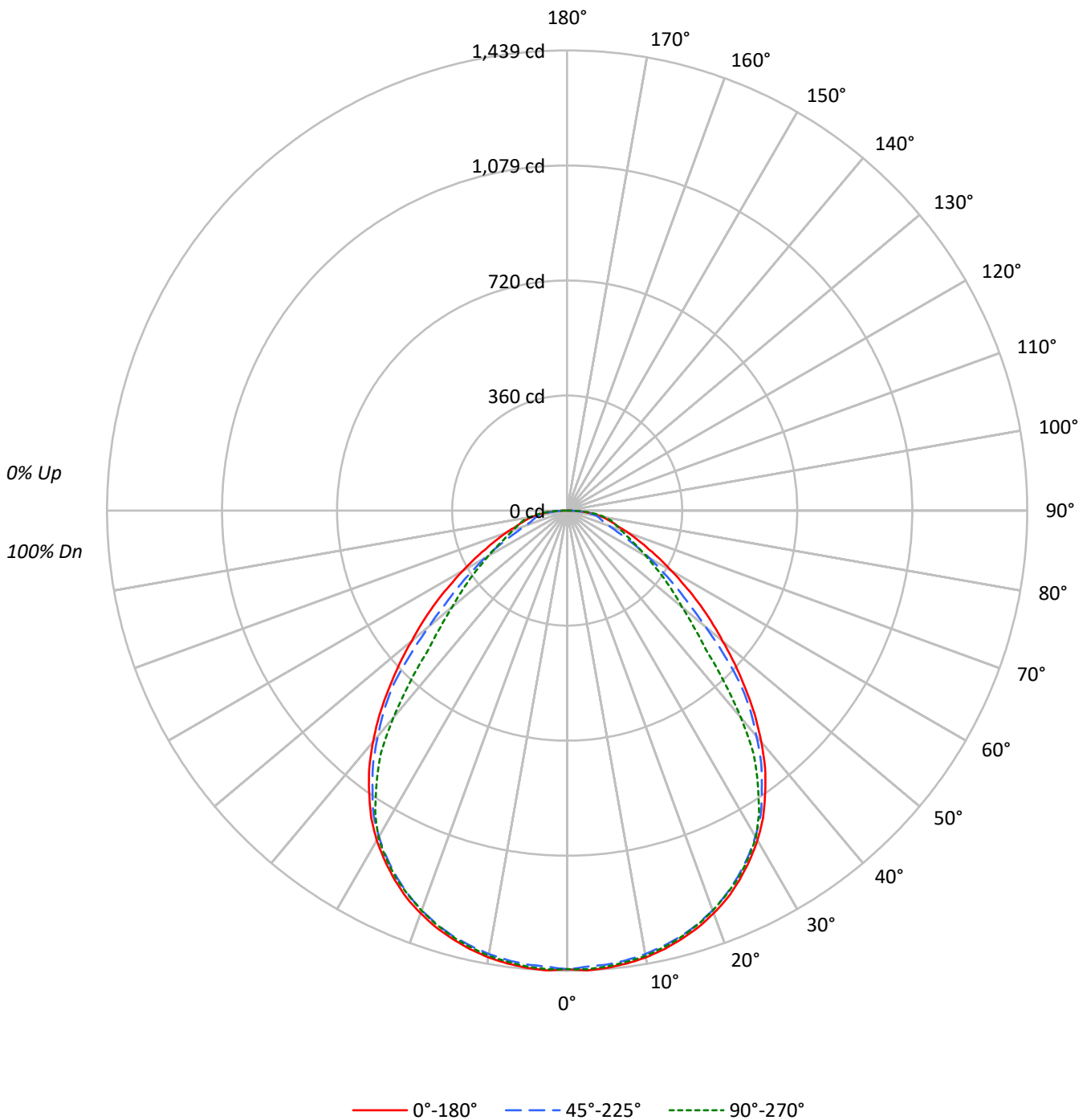
Input Watts (W): 29.853
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	51	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°	3859	3859	3859
5°	3878	3849	3866
10°	3877	3847	3863
15°	3864	3839	3845
20°	3838	3809	3813
25°	3787	3752	3763
30°	3700	3659	3668
35°	3548	3488	3413
40°	3317	3235	2969
45°	3002	2916	2328
50°	2656	2359	1963
55°	2350	1939	1731
60°	2029	1605	1534
65°	1764	1277	1412
70°	1595	1096	1412
75°	1531	1145	1577
80°	1706	1458	1843
85°	1800	1553	2208



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.0	4.3
10°-20°	389.9	12.4
20°-30°	583.5	18.6
30°-40°	660.5	21.0
40°-50°	562.6	17.9
50°-60°	380.9	12.1
60°-70°	227.4	7.2
70°-80°	142.1	4.5
80°-90°	60.1	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°	1109.4	35.3
0°-40°	1769.9	56.3
0°-60°	2713.4	86.3
0°-90°	3143.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3143.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1434	1434	1434	1434	1434	
5°	1436	1432	1425	1434	1431	136
15°	1387	1382	1378	1387	1380	391
25°	1275	1272	1264	1270	1267	587
35°	1080	1073	1062	1051	1039	673
45°	789	791	766	653	612	608
55°	501	473	413	369	369	448
65°	277	231	200	214	222	279
75°	147	132	110	144	152	159
85°	58	54	50	63	72	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1434.2	1434.2	1434.2	1434.2	1434.2
2.5°	1439.4	1435.7	1427.7	1437.2	1435.7
5°	1435.7	1432.1	1424.8	1433.5	1431.3
7.5°	1428.4	1424.8	1418.2	1427.0	1423.3
10°	1418.9	1414.6	1408.0	1417.5	1413.8
12.5°	1404.4	1400.0	1394.1	1403.6	1398.5
15°	1386.9	1381.8	1378.1	1386.9	1380.3
17.5°	1365.7	1361.3	1356.2	1365.0	1357.7
20°	1340.2	1336.5	1330.0	1335.1	1331.4
22.5°	1311.0	1305.9	1299.4	1305.2	1300.1
25°	1275.3	1271.6	1263.6	1269.5	1267.3
27.5°	1234.5	1232.3	1222.8	1230.1	1226.4
30°	1190.7	1184.9	1177.6	1179.8	1180.5
32.5°	1140.4	1133.1	1127.3	1122.2	1117.1
35°	1079.9	1073.3	1061.7	1050.7	1039.0
37.5°	1017.2	1008.4	996.8	972.7	958.1
40°	944.3	939.9	920.9	887.4	845.1
42.5°	869.9	865.5	848.7	773.6	727.7
45°	788.9	791.1	766.3	653.3	611.8
47.5°	711.7	717.5	663.5	557.8	535.9
50°	634.4	640.9	563.6	482.0	468.8
52.5°	566.6	561.5	480.5	422.9	417.1
55°	500.9	473.2	413.4	369.0	369.0
57.5°	433.8	394.5	351.5	323.0	323.0
60°	377.0	328.1	298.2	279.3	285.1
62.5°	324.5	272.7	247.2	243.5	250.8
65°	277.1	231.1	200.5	214.4	221.7
67.5°	238.4	197.6	164.8	194.0	198.3
70°	202.7	172.1	139.3	178.6	179.4
72.5°	169.9	151.7	119.6	161.9	164.8
75°	147.3	132.0	110.1	144.4	151.7
77.5°	129.1	113.0	101.4	124.7	138.5
80°	110.1	92.6	94.1	105.0	118.9
82.5°	84.6	71.5	74.4	86.0	97.0
85°	58.3	54.0	50.3	63.4	71.5
87.5°	31.4	29.2	25.5	35.7	36.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)