

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: P291114

Luminaire Tested: **14GR-LD5-32-A-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291114
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-LD5-32-A-UNV-L92765-W2A1-U-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3055.0 lumens
Efficiency: N/A
Efficacy: 116.5 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

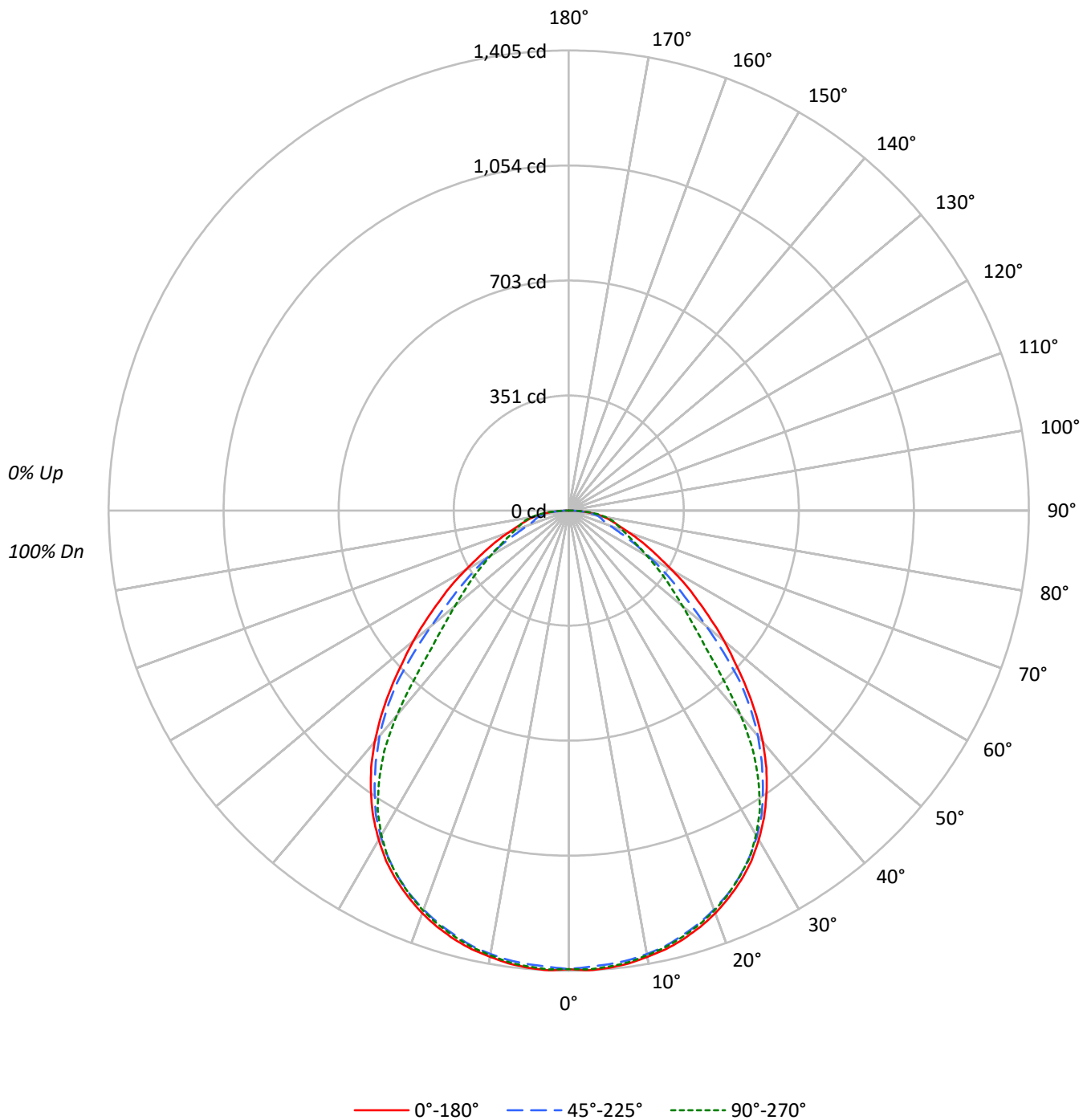
Input Watts (W): 26.226
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
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°	3767	3767	3767
5°	3786	3757	3776
10°	3781	3757	3767
15°	3774	3740	3752
20°	3747	3712	3722
25°	3698	3662	3664
30°	3607	3570	3554
35°	3459	3396	3319
40°	3238	3156	2871
45°	2924	2813	2244
50°	2593	2284	1898
55°	2264	1874	1674
60°	1963	1543	1478
65°	1721	1238	1365
70°	1535	1050	1373
75°	1497	1106	1535
80°	1660	1396	1759
85°	1732	1488	2059



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.8	4.3
10°-20°	380.5	12.5
20°-30°	569.2	18.6
30°-40°	642.5	21.0
40°-50°	545.1	17.8
50°-60°	368.8	12.1
60°-70°	220.1	7.2
70°-80°	137.9	4.5
80°-90°	58.0	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°	1082.5	35.4
0°-40°	1725.1	56.5
0°-60°	2639.0	86.4
0°-90°	3055.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3055.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1400	1400	1400	1400	1400	
5°	1401	1397	1391	1401	1398	133
15°	1354	1352	1342	1352	1347	382
25°	1245	1241	1233	1239	1234	573
35°	1053	1046	1034	1025	1010	656
45°	768	771	739	634	590	592
55°	482	460	400	358	357	435
65°	270	224	194	207	214	270
75°	144	128	106	140	148	155
85°	56	53	48	62	67	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1399.9	1399.9	1399.9	1399.9	1399.9
2.5°	1404.9	1400.6	1394.3	1402.8	1402.1
5°	1401.4	1397.1	1390.7	1400.6	1397.8
7.5°	1395.0	1391.4	1385.0	1394.3	1391.4
10°	1383.6	1380.8	1375.1	1382.9	1378.6
12.5°	1371.6	1369.4	1362.3	1369.4	1365.2
15°	1354.5	1351.7	1342.5	1351.7	1346.7
17.5°	1333.2	1329.7	1321.9	1329.7	1325.4
20°	1308.4	1304.1	1296.3	1304.1	1299.9
22.5°	1278.6	1275.1	1268.0	1275.1	1269.4
25°	1245.3	1241.0	1233.2	1238.9	1233.9
27.5°	1206.9	1201.3	1194.2	1198.4	1195.6
30°	1160.8	1153.7	1148.8	1148.8	1143.8
32.5°	1110.4	1105.5	1097.0	1092.0	1085.6
35°	1053.0	1045.9	1033.8	1024.6	1010.4
37.5°	991.2	982.7	967.8	944.4	925.2
40°	921.7	911.1	898.3	852.2	817.4
42.5°	847.2	845.1	823.1	744.3	696.1
45°	768.4	771.3	739.3	633.6	589.6
47.5°	689.0	698.9	640.7	537.1	514.4
50°	619.4	623.0	545.6	466.2	453.4
52.5°	547.8	542.1	465.5	410.1	400.9
55°	482.5	459.8	399.5	357.6	356.9
57.5°	425.0	383.2	341.3	310.1	313.6
60°	364.7	317.9	286.7	269.6	274.6
62.5°	311.5	266.8	239.1	234.2	242.7
65°	270.3	224.2	194.4	207.2	214.3
67.5°	231.3	192.3	158.2	188.7	191.6
70°	195.1	166.7	133.4	173.8	174.5
72.5°	165.3	147.6	115.7	157.5	159.6
75°	144.0	128.4	106.4	140.5	147.6
77.5°	126.3	110.0	98.6	121.3	133.4
80°	107.1	88.7	90.1	101.5	113.5
82.5°	82.3	68.8	71.7	83.7	92.2
85°	56.1	53.2	48.2	62.4	66.7
87.5°	29.8	28.4	24.8	35.5	33.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)