

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: P290955

Luminaire Tested: **14GR-LD5-24-A-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290955
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-LD5-24-A-UNV-L83050-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2439.0 lumens
Efficiency: N/A
Efficacy: 133.8 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

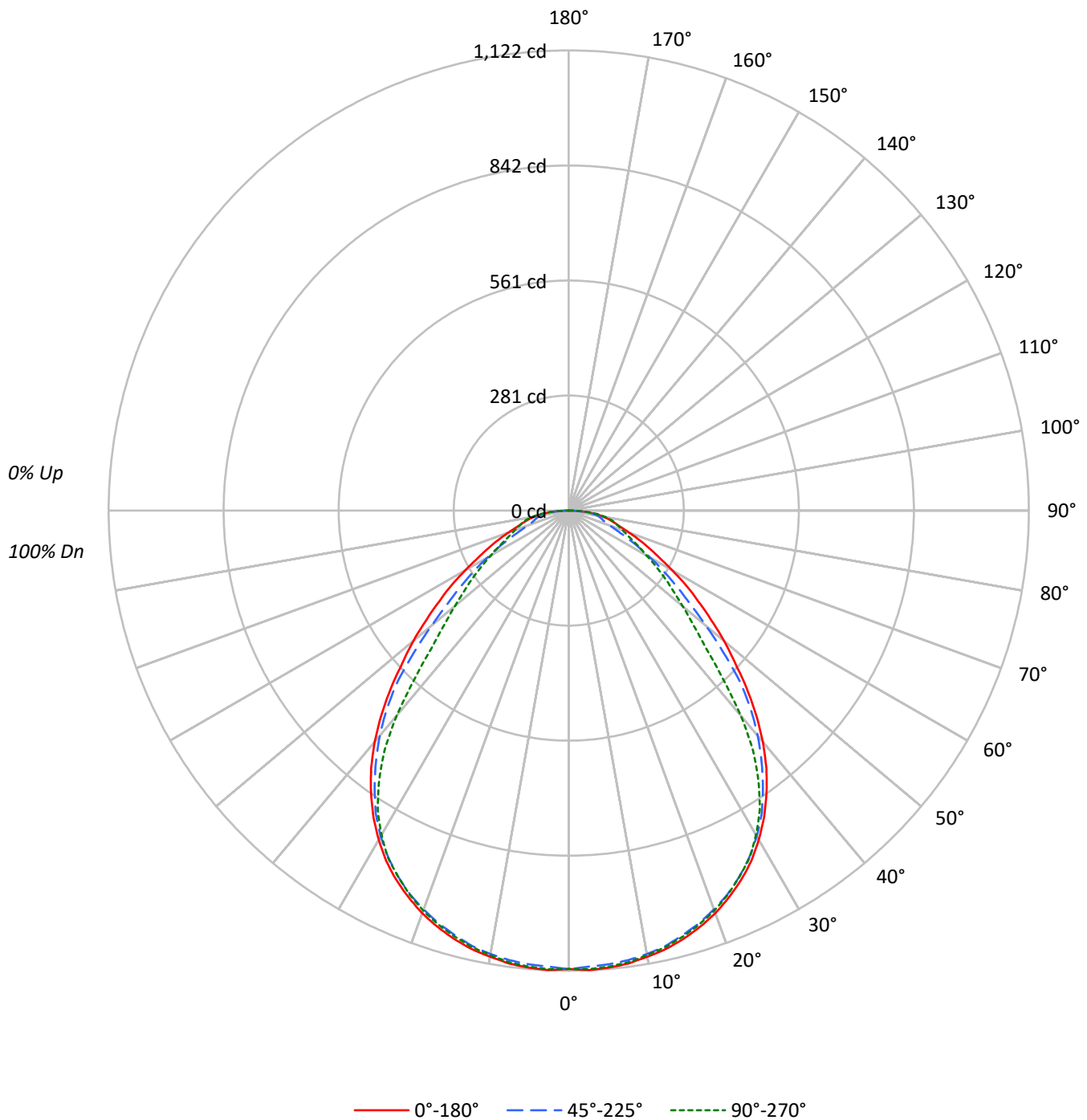
Input Watts (W): 18.228
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3008	3008	3008
5°	3022	2999	3015
10°	3018	3000	3008
15°	3013	2986	2995
20°	2991	2964	2972
25°	2952	2923	2925
30°	2880	2850	2838
35°	2762	2712	2650
40°	2585	2519	2292
45°	2335	2246	1791
50°	2070	1824	1515
55°	1807	1496	1337
60°	1567	1232	1180
65°	1374	988	1089
70°	1226	838	1097
75°	1196	884	1225
80°	1325	1114	1404
85°	1383	1189	1643



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.0	4.3
10°-20°	303.8	12.5
20°-30°	454.4	18.6
30°-40°	513.0	21.0
40°-50°	435.2	17.8
50°-60°	294.5	12.1
60°-70°	175.8	7.2
70°-80°	110.1	4.5
80°-90°	46.3	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°	864.3	35.4
0°-40°	1377.2	56.5
0°-60°	2106.9	86.4
0°-90°	2439.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2439.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1118	1118	1118	1118	1118	
5°	1119	1115	1110	1118	1116	106
15°	1081	1079	1072	1079	1075	305
25°	994	991	984	989	985	457
35°	841	835	825	818	807	524
45°	614	616	590	506	471	473
55°	385	367	319	286	285	347
65°	216	179	155	165	171	216
75°	115	102	85	112	118	124
85°	45	42	38	50	53	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1117.7	1117.7	1117.7	1117.7	1117.7
2.5°	1121.6	1118.2	1113.1	1119.9	1119.4
5°	1118.8	1115.4	1110.3	1118.2	1116.0
7.5°	1113.7	1110.9	1105.8	1113.1	1110.9
10°	1104.6	1102.4	1097.8	1104.1	1100.7
12.5°	1095.0	1093.3	1087.6	1093.3	1089.9
15°	1081.4	1079.1	1071.8	1079.1	1075.2
17.5°	1064.4	1061.6	1055.3	1061.6	1058.2
20°	1044.6	1041.2	1035.0	1041.2	1037.8
22.5°	1020.8	1018.0	1012.3	1018.0	1013.4
25°	994.2	990.8	984.5	989.1	985.1
27.5°	963.6	959.0	953.4	956.8	954.5
30°	926.8	921.1	917.1	917.1	913.2
32.5°	886.5	882.6	875.8	871.8	866.7
35°	840.7	835.0	825.4	818.0	806.7
37.5°	791.4	784.6	772.7	754.0	738.7
40°	735.9	727.4	717.2	680.3	652.6
42.5°	676.4	674.7	657.1	594.2	555.7
45°	613.5	615.8	590.3	505.9	470.7
47.5°	550.0	558.0	511.5	428.8	410.7
50°	494.5	497.4	435.6	372.2	362.0
52.5°	437.3	432.8	371.6	327.4	320.1
55°	385.2	367.1	318.9	285.5	284.9
57.5°	339.3	305.9	272.5	247.6	250.4
60°	291.2	253.8	228.9	215.3	219.2
62.5°	248.7	213.0	190.9	186.9	193.7
65°	215.8	179.0	155.2	165.4	171.1
67.5°	184.7	153.5	126.3	150.7	152.9
70°	155.8	133.1	106.5	138.8	139.4
72.5°	132.0	117.8	92.3	125.8	127.5
75°	115.0	102.5	85.0	112.2	117.8
77.5°	100.8	87.8	78.7	96.9	106.5
80°	85.5	70.8	71.9	81.0	90.6
82.5°	65.7	54.9	57.2	66.8	73.6
85°	44.8	42.5	38.5	49.8	53.2
87.5°	23.8	22.7	19.8	28.3	26.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)