

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: P290997

Luminaire Tested: **14GR-LD5-24-A-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290997
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-L82765-W2A1-U-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2478.0 lumens
Efficiency: N/A
Efficacy: 133.2 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

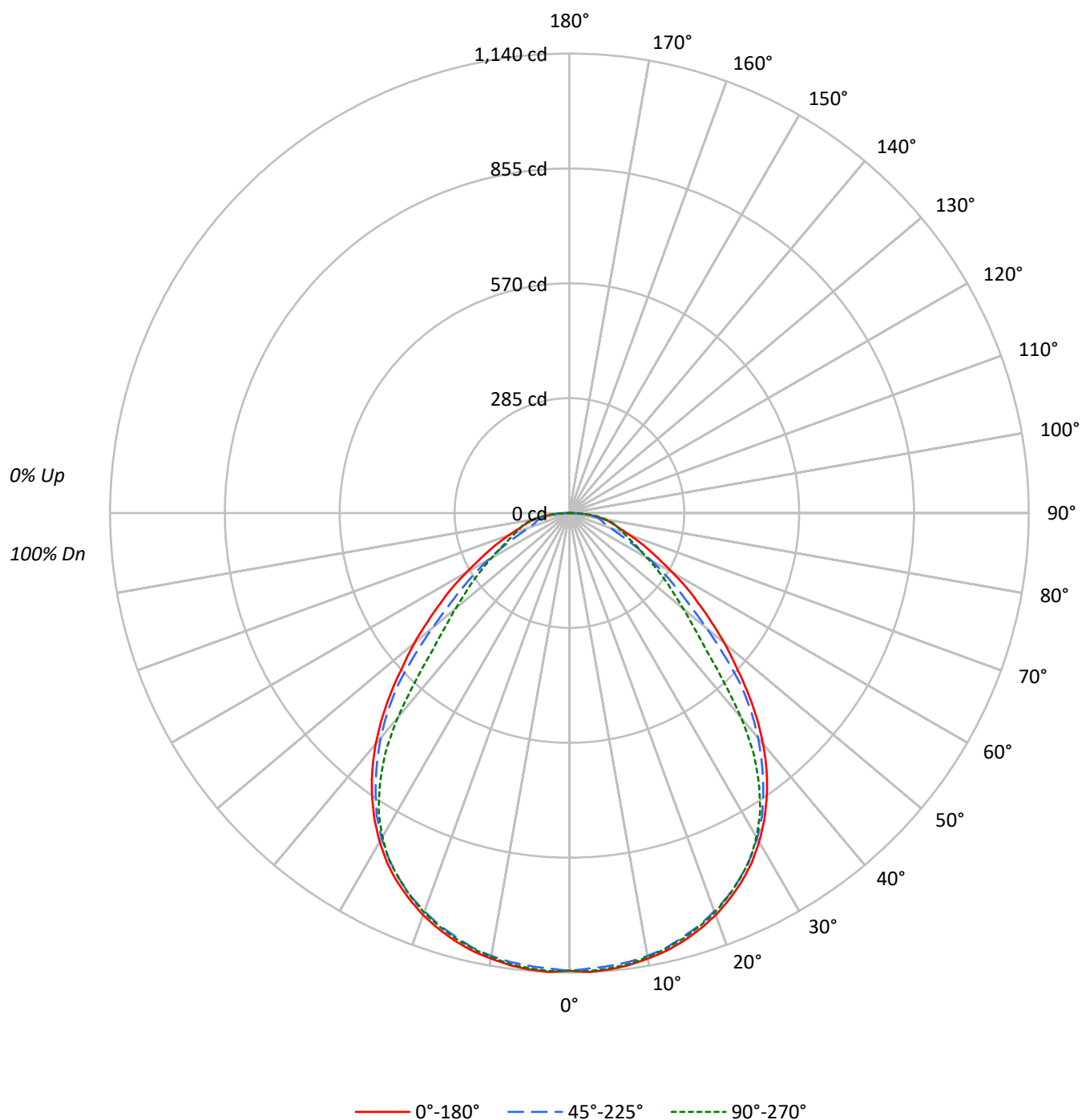
Input Watts (W): 18.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	110	106	102	98	107	103	100	97	99	96	94		95	93	91		86
2	101	94	88	83	99	92	86	82	88	84	80		85	81	78		74
3	93	84	76	71	91	82	75	70	79	74	69		77	72	68		64
4	86	75	67	61	84	74	67	61	72	65	60		69	64	59		56
5	80	68	60	54	78	67	59	53	65	58	53		63	57	52		50
6	74	62	54	48	72	61	53	47	59	52	47		58	51	47		44
7	69	57	48	43	67	56	48	43	54	47	42		53	47	42		40
8	65	52	44	38	63	51	44	38	50	43	38		49	43	38		36
9	61	48	40	35	59	47	40	35	46	39	35		45	39	35		33
10	57	44	37	32	56	44	37	32	43	36	32		42	36	32		30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3056	3056	3056
5°	3071	3047	3063
10°	3067	3048	3056
15°	3061	3034	3043
20°	3039	3011	3019
25°	2999	2970	2972
30°	2926	2895	2883
35°	2806	2755	2692
40°	2626	2559	2329
45°	2372	2282	1820
50°	2103	1853	1540
55°	1836	1520	1358
60°	1592	1251	1199
65°	1396	1004	1107
70°	1245	851	1114
75°	1214	897	1245
80°	1347	1133	1427
85°	1405	1207	1670



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.7	4.3
10°-20°	308.6	12.5
20°-30°	461.7	18.6
30°-40°	521.2	21.0
40°-50°	442.1	17.8
50°-60°	299.2	12.1
60°-70°	178.6	7.2
70°-80°	111.8	4.5
80°-90°	47.0	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°	878.1	35.4
0°-40°	1399.3	56.5
0°-60°	2140.6	86.4
0°-90°	2478.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2478.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1136	1136	1136	1136	1136	
5°	1137	1133	1128	1136	1134	108
15°	1099	1096	1089	1096	1092	310
25°	1010	1007	1000	1005	1001	464
35°	854	848	839	831	820	532
45°	623	626	600	514	478	480
55°	391	373	324	290	290	353
65°	219	182	158	168	174	219
75°	117	104	86	114	120	126
85°	46	43	39	51	54	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1135.5	1135.5	1135.5	1135.5	1135.5
2.5°	1139.6	1136.1	1130.9	1137.8	1137.3
5°	1136.7	1133.2	1128.0	1136.1	1133.8
7.5°	1131.5	1128.6	1123.4	1130.9	1128.6
10°	1122.3	1120.0	1115.4	1121.7	1118.3
12.5°	1112.5	1110.8	1105.0	1110.8	1107.3
15°	1098.7	1096.4	1088.9	1096.4	1092.4
17.5°	1081.4	1078.6	1072.2	1078.6	1075.1
20°	1061.3	1057.8	1051.5	1057.8	1054.4
22.5°	1037.1	1034.2	1028.5	1034.2	1029.6
25°	1010.1	1006.6	1000.3	1004.9	1000.9
27.5°	979.0	974.4	968.6	972.1	969.8
30°	941.6	935.8	931.8	931.8	927.8
32.5°	900.7	896.7	889.8	885.7	880.6
35°	854.1	848.3	838.6	831.1	819.6
37.5°	804.0	797.1	785.0	766.0	750.5
40°	747.6	739.0	728.6	691.2	663.0
42.5°	687.2	685.5	667.6	603.7	564.6
45°	623.3	625.6	599.7	514.0	478.3
47.5°	558.8	566.9	519.7	435.7	417.3
50°	502.4	505.3	442.6	378.1	367.8
52.5°	444.3	439.7	377.6	332.7	325.2
55°	391.4	372.9	324.0	290.1	289.5
57.5°	344.7	310.8	276.8	251.5	254.4
60°	295.8	257.8	232.5	218.7	222.7
62.5°	252.7	216.4	194.0	189.9	196.8
65°	219.3	181.9	157.7	168.1	173.8
67.5°	187.6	156.0	128.3	153.1	155.4
70°	158.3	135.3	108.2	141.0	141.6
72.5°	134.1	119.7	93.8	127.8	129.5
75°	116.8	104.2	86.3	114.0	119.7
77.5°	102.4	89.2	80.0	98.4	108.2
80°	86.9	71.9	73.1	82.3	92.1
82.5°	66.8	55.8	58.1	67.9	74.8
85°	45.5	43.2	39.1	50.6	54.1
87.5°	24.2	23.0	20.1	28.8	27.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)