

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: P290957

Luminaire Tested: **14GR-LD5-24-A-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290957
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-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: 2586.0 lumens
Efficiency: N/A
Efficacy: 135.0 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

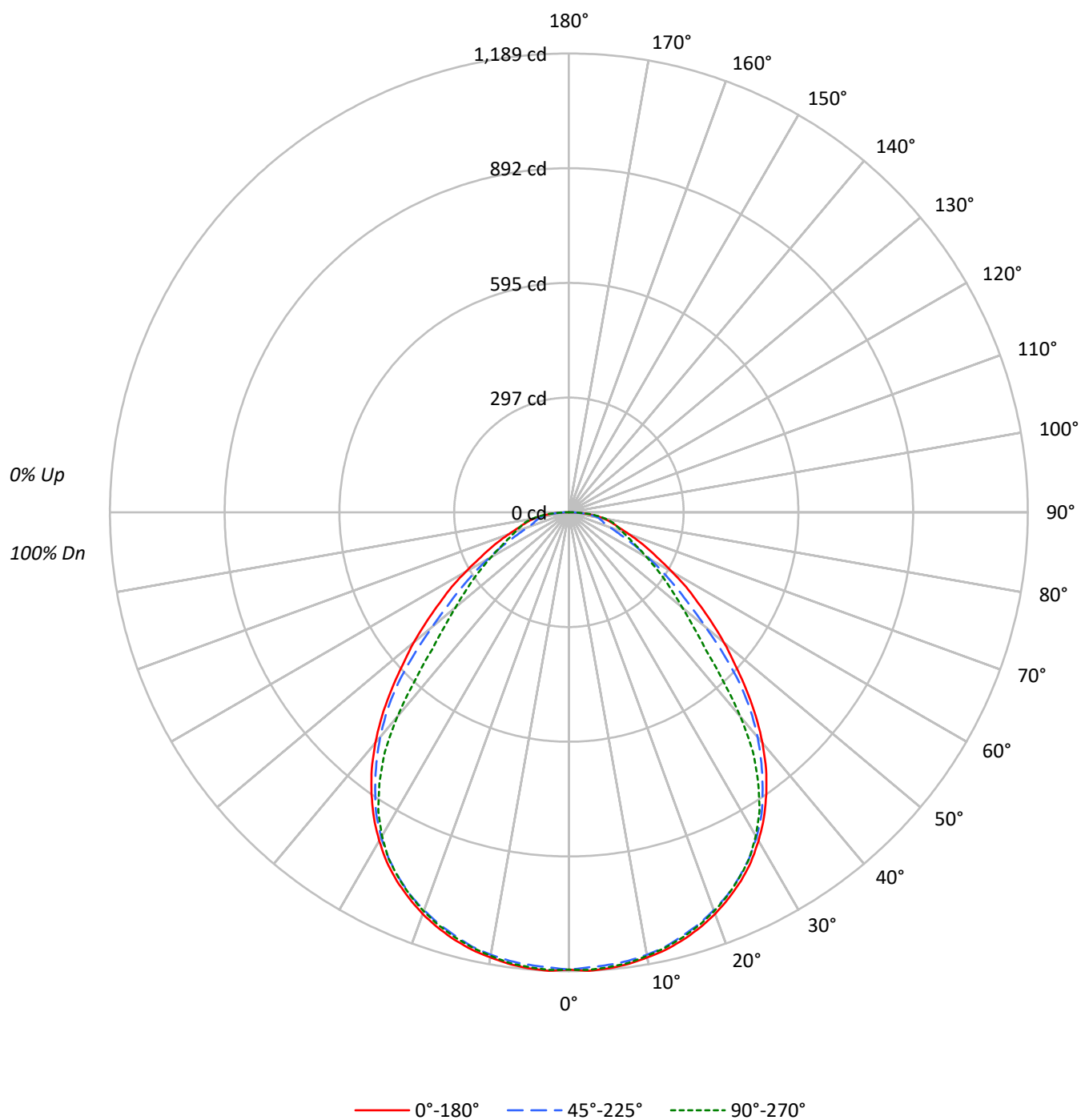
Input Watts (W): 19.158
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	110	106	102	98	107	103	100	97		99	96	94		95	93	91		92	90	88
2	101	94	88	83	99	92	86	82		88	84	80		85	81	78		82	79	76
3	93	84	76	71	91	82	75	70		79	74	69		77	72	68		74	70	66
4	86	75	67	61	84	74	67	61		72	65	60		69	64	59		67	62	58
5	80	68	60	54	78	67	59	53		65	58	53		63	57	52		61	56	52
6	74	62	54	48	72	61	53	47		59	52	47		58	51	47		56	51	46
7	69	57	48	43	67	56	48	43		54	47	42		53	47	42		52	46	42
8	65	52	44	38	63	51	44	38		50	43	38		49	43	38		48	42	38
9	61	48	40	35	59	47	40	35		46	39	35		45	39	35		44	39	34
10	57	44	37	32	56	44	37	32		43	36	32		42	36	32		41	36	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3189	3189	3189
5°	3204	3180	3196
10°	3200	3181	3189
15°	3194	3166	3176
20°	3172	3142	3151
25°	3130	3100	3101
30°	3053	3022	3008
35°	2928	2875	2810
40°	2741	2671	2431
45°	2476	2382	1899
50°	2195	1934	1607
55°	1916	1586	1417
60°	1661	1306	1251
65°	1457	1048	1155
70°	1300	888	1163
75°	1267	937	1299
80°	1406	1182	1489
85°	1463	1260	1744



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.4	4.3
10°-20°	322.1	12.5
20°-30°	481.8	18.6
30°-40°	543.9	21.0
40°-50°	461.4	17.8
50°-60°	312.2	12.1
60°-70°	186.4	7.2
70°-80°	116.7	4.5
80°-90°	49.1	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°	916.3	35.4
0°-40°	1460.2	56.5
0°-60°	2233.8	86.4
0°-90°	2586.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2586.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1185	1185	1185	1185	1185	
5°	1186	1183	1177	1186	1183	113
15°	1147	1144	1136	1144	1140	323
25°	1054	1050	1044	1049	1044	485
35°	891	885	875	867	855	555
45°	650	653	626	536	499	501
55°	408	389	338	303	302	368
65°	229	190	165	175	181	229
75°	122	109	90	119	125	131
85°	47	45	41	53	56	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1185.0	1185.0	1185.0	1185.0	1185.0
2.5°	1189.2	1185.6	1180.2	1187.4	1186.8
5°	1186.2	1182.6	1177.2	1185.6	1183.2
7.5°	1180.8	1177.8	1172.4	1180.2	1177.8
10°	1171.2	1168.8	1164.0	1170.6	1167.0
12.5°	1161.0	1159.2	1153.2	1159.2	1155.6
15°	1146.6	1144.2	1136.4	1144.2	1140.0
17.5°	1128.6	1125.6	1119.0	1125.6	1122.0
20°	1107.5	1103.9	1097.3	1103.9	1100.3
22.5°	1082.3	1079.3	1073.3	1079.3	1074.5
25°	1054.1	1050.5	1043.9	1048.7	1044.5
27.5°	1021.7	1016.8	1010.8	1014.4	1012.0
30°	982.6	976.6	972.4	972.4	968.2
32.5°	940.0	935.8	928.6	924.4	918.9
35°	891.3	885.3	875.1	867.3	855.3
37.5°	839.1	831.9	819.2	799.4	783.2
40°	780.2	771.2	760.4	721.3	691.9
42.5°	717.1	715.3	696.7	630.0	589.2
45°	650.5	652.9	625.8	536.4	499.1
47.5°	583.2	591.6	542.4	454.7	435.4
50°	524.3	527.3	461.9	394.6	383.8
52.5°	463.7	458.9	394.0	347.2	339.3
55°	408.4	389.2	338.1	302.7	302.1
57.5°	359.8	324.3	288.9	262.5	265.5
60°	308.7	269.1	242.6	228.2	232.4
62.5°	263.7	225.8	202.4	198.2	205.4
65°	228.8	189.8	164.6	175.4	181.4
67.5°	195.8	162.8	133.9	159.8	162.2
70°	165.2	141.1	112.9	147.2	147.8
72.5°	139.9	124.9	97.9	133.3	135.1
75°	121.9	108.7	90.1	118.9	124.9
77.5°	106.9	93.1	83.5	102.7	112.9
80°	90.7	75.1	76.3	85.9	96.1
82.5°	69.7	58.3	60.7	70.9	78.1
85°	47.4	45.0	40.8	52.9	56.5
87.5°	25.2	24.0	21.0	30.0	28.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)