

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: P290761

Luminaire Tested: **14GR-LD5-24-F125-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290761
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33313)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-24-F125-UNV-L83050-W2A1-U-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2558.0 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

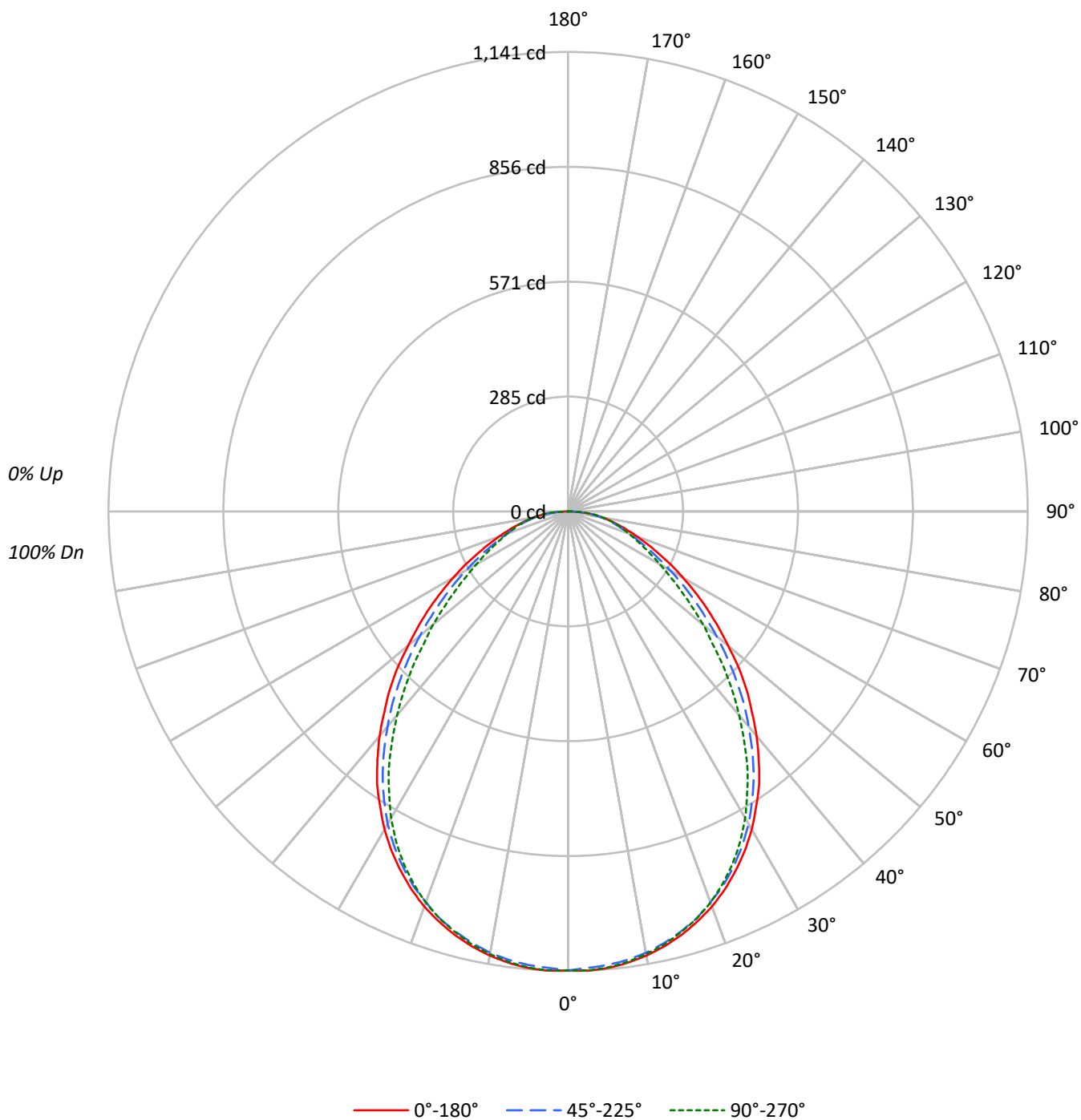
Input Watts (W): 19.158
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	101	98	107	103	99	96		99	96	93		95	92	90		91	89	88
2	101	93	87	81	98	91	85	80		88	83	78		84	80	77		81	78	75
3	92	83	75	69	90	81	74	68		78	72	67		75	70	66		73	69	65
4	85	74	66	59	83	73	65	59		70	64	58		68	62	58		66	61	57
5	79	67	58	52	77	66	58	52		64	57	51		62	55	51		60	54	50
6	73	60	52	46	71	60	52	46		58	51	45		56	50	45		55	49	45
7	68	55	47	41	66	54	47	41		53	46	41		51	45	40		50	44	40
8	64	51	43	37	62	50	42	37		49	42	37		47	41	36		46	41	36
9	60	47	39	34	58	46	39	33		45	38	33		44	38	33		43	37	33
10	56	43	36	31	55	43	35	31		42	35	30		41	35	30		40	34	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3067	3067	3067
5°	3073	3054	3070
10°	3060	3040	3050
15°	3032	3009	3014
20°	2990	2957	2959
25°	2922	2886	2867
30°	2832	2783	2731
35°	2716	2637	2550
40°	2558	2449	2320
45°	2385	2242	2075
50°	2169	2011	1832
55°	1975	1783	1597
60°	1771	1570	1419
65°	1579	1399	1303
70°	1436	1275	1261
75°	1342	1242	1305
80°	1350	1285	1359
85°	1408	1315	1501



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.8	4.2
10°-20°	305.5	11.9
20°-30°	447.9	17.5
30°-40°	499.9	19.5
40°-50°	452.6	17.7
50°-60°	341.7	13.4
60°-70°	223.4	8.7
70°-80°	131.2	5.1
80°-90°	48.0	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°	861.1	33.7
0°-40°	1361.0	53.2
0°-60°	2155.4	84.3
0°-90°	2558.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2558.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1140	1140	1140	1140	1140	
5°	1138	1135	1131	1137	1137	108
15°	1088	1087	1080	1086	1082	307
25°	984	980	972	970	966	453
35°	827	820	803	785	776	515
45°	627	617	589	557	545	482
55°	421	411	380	350	340	377
65°	248	240	220	207	205	249
75°	129	126	120	122	126	139
85°	46	44	43	48	49	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1139.6	1139.6	1139.6	1139.6	1139.6
2.5°	1141.4	1139.6	1134.2	1141.4	1140.8
5°	1137.8	1135.4	1130.6	1137.2	1136.6
7.5°	1130.6	1128.2	1123.4	1129.4	1128.2
10°	1119.8	1117.4	1112.6	1119.2	1116.2
12.5°	1105.9	1103.5	1098.1	1104.1	1101.7
15°	1088.5	1086.7	1080.1	1086.1	1081.9
17.5°	1067.5	1064.5	1059.7	1063.3	1060.3
20°	1044.1	1040.5	1032.7	1036.3	1033.3
22.5°	1015.9	1011.1	1005.7	1005.7	1001.5
25°	984.1	980.5	972.1	970.3	965.5
27.5°	949.8	946.8	936.0	933.0	924.6
30°	911.4	907.2	895.8	886.2	879.0
32.5°	868.8	865.8	850.2	837.6	827.4
35°	826.8	819.6	802.7	784.7	776.3
37.5°	777.5	772.1	751.1	728.9	717.5
40°	728.3	721.7	697.1	672.5	660.4
42.5°	674.9	668.9	645.4	616.0	603.4
45°	626.8	617.2	589.0	557.2	545.2
47.5°	574.0	563.8	533.8	500.1	486.3
50°	518.2	511.5	480.3	447.9	437.7
52.5°	468.3	458.1	428.7	396.9	386.1
55°	420.9	411.3	380.1	350.0	340.4
57.5°	373.5	362.6	335.6	308.6	299.0
60°	329.0	318.2	291.8	269.6	263.6
62.5°	288.8	276.8	253.4	236.0	231.8
65°	248.0	240.2	219.7	207.1	204.7
67.5°	213.7	204.1	187.9	181.9	180.7
70°	182.5	175.9	162.1	160.3	160.3
72.5°	154.3	148.9	138.7	139.9	141.7
75°	129.1	125.5	119.5	121.9	125.5
77.5°	107.5	103.9	100.3	103.9	106.3
80°	87.1	83.5	82.9	85.9	87.7
82.5°	65.4	62.4	63.0	67.8	69.6
85°	45.6	43.8	42.6	48.0	48.6
87.5°	23.4	22.2	21.6	25.8	24.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)