

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: P290916

Luminaire Tested: **14GR-LD5-32-F125-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290916
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-LD5-32-F125-UNV-L92765-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2888.0 lumens
Efficiency: N/A
Efficacy: 111.3 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

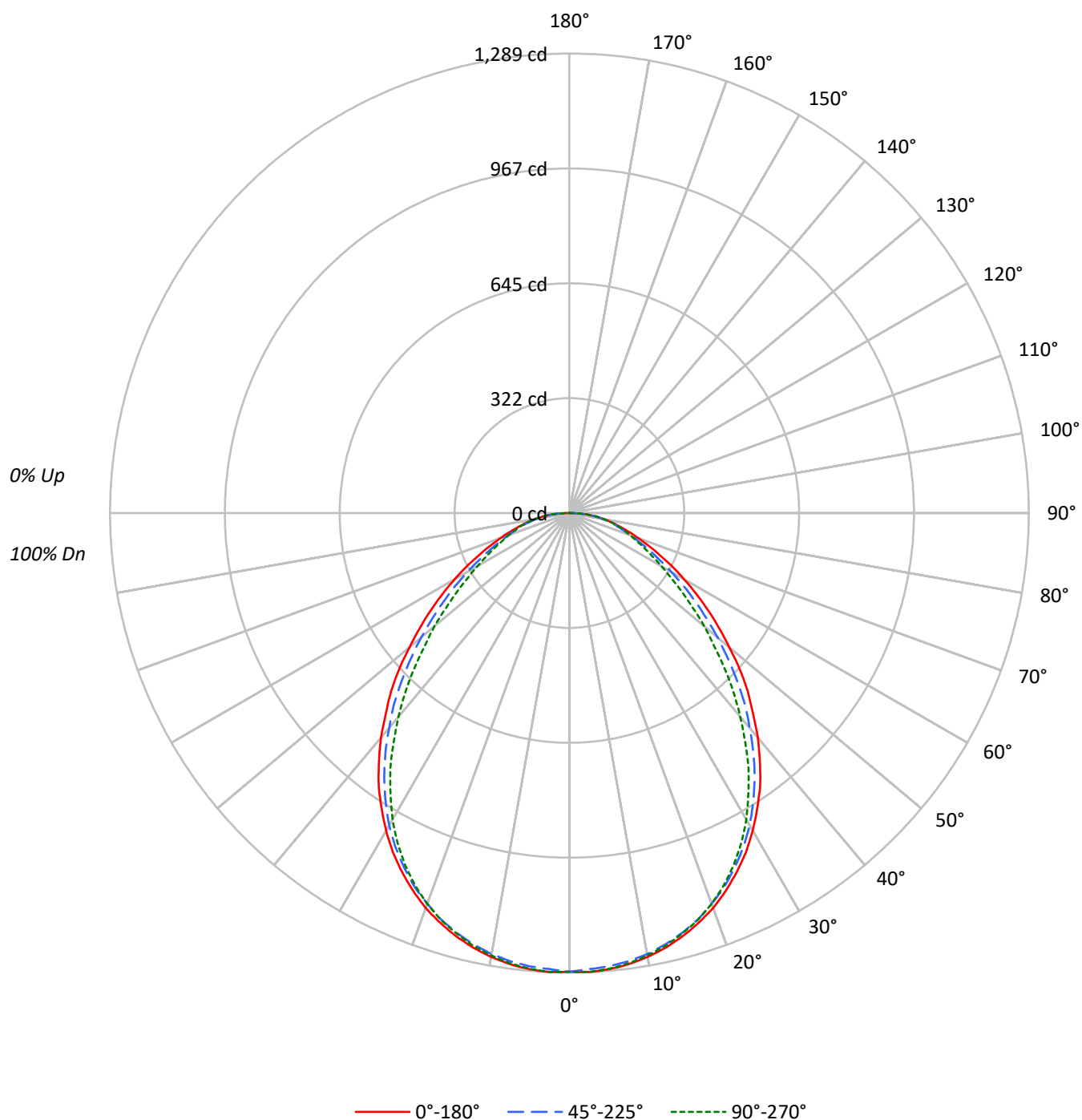
Input Watts (W): 25.947
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3462	3462	3462
5°	3470	3448	3466
10°	3454	3432	3443
15°	3424	3397	3403
20°	3376	3339	3341
25°	3299	3259	3236
30°	3197	3143	3084
35°	3066	2977	2879
40°	2888	2765	2620
45°	2693	2531	2342
50°	2449	2270	2069
55°	2229	2013	1803
60°	1999	1773	1602
65°	1783	1580	1472
70°	1622	1440	1424
75°	1515	1403	1473
80°	1523	1449	1534
85°	1590	1485	1695



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.7	4.2
10°-20°	344.9	11.9
20°-30°	505.7	17.5
30°-40°	564.4	19.5
40°-50°	511.0	17.7
50°-60°	385.8	13.4
60°-70°	252.2	8.7
70°-80°	148.1	5.1
80°-90°	54.2	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°	972.2	33.7
0°-40°	1536.6	53.2
0°-60°	2433.4	84.3
0°-90°	2888.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2888.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1287	1287	1287	1287	1287	
5°	1285	1282	1276	1284	1283	122
15°	1229	1227	1220	1226	1222	346
25°	1111	1107	1098	1095	1090	511
35°	933	925	906	886	876	581
45°	708	697	665	629	616	544
55°	475	464	429	395	384	425
65°	280	271	248	234	231	281
75°	146	142	135	138	142	157
85°	52	50	48	54	55	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1286.6	1286.6	1286.6	1286.6	1286.6
2.5°	1288.6	1286.6	1280.5	1288.6	1287.9
5°	1284.6	1281.8	1276.4	1283.9	1283.2
7.5°	1276.4	1273.7	1268.3	1275.1	1273.7
10°	1264.2	1261.5	1256.1	1263.5	1260.1
12.5°	1248.6	1245.9	1239.8	1246.6	1243.9
15°	1229.0	1226.9	1219.5	1226.3	1221.5
17.5°	1205.2	1201.9	1196.4	1200.5	1197.1
20°	1178.8	1174.7	1165.9	1170.0	1166.6
22.5°	1146.9	1141.5	1135.4	1135.4	1130.7
25°	1111.0	1107.0	1097.5	1095.4	1090.0
27.5°	1072.4	1069.0	1056.8	1053.4	1043.9
30°	1029.0	1024.3	1011.4	1000.5	992.4
32.5°	980.9	977.5	959.9	945.6	934.1
35°	933.4	925.3	906.3	886.0	876.5
37.5°	877.8	871.7	848.0	822.9	810.0
40°	822.2	814.8	787.0	759.2	745.7
42.5°	761.9	755.1	728.7	695.5	681.3
45°	707.7	696.8	665.0	629.1	615.5
47.5°	648.0	636.5	602.6	564.7	549.1
50°	585.0	577.5	542.3	505.7	494.2
52.5°	528.7	517.2	484.0	448.1	435.9
55°	475.2	464.3	429.1	395.2	384.3
57.5°	421.6	409.4	378.9	348.4	337.6
60°	371.5	359.3	329.4	304.4	297.6
62.5°	326.1	312.5	286.1	266.4	261.7
65°	280.0	271.1	248.1	233.9	231.2
67.5°	241.3	230.5	212.2	205.4	204.0
70°	206.1	198.6	183.0	181.0	181.0
72.5°	174.2	168.1	156.6	157.9	160.0
75°	145.7	141.7	134.9	137.6	141.7
77.5°	121.3	117.3	113.2	117.3	120.0
80°	98.3	94.2	93.5	96.9	99.0
82.5°	73.9	70.5	71.2	76.6	78.6
85°	51.5	49.5	48.1	54.2	54.9
87.5°	26.4	25.1	24.4	29.1	27.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)