

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: P290816

Luminaire Tested: **14GR-LD5-32-F125-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290816
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-L82765-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3087.0 lumens
Efficiency: N/A
Efficacy: 121.1 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

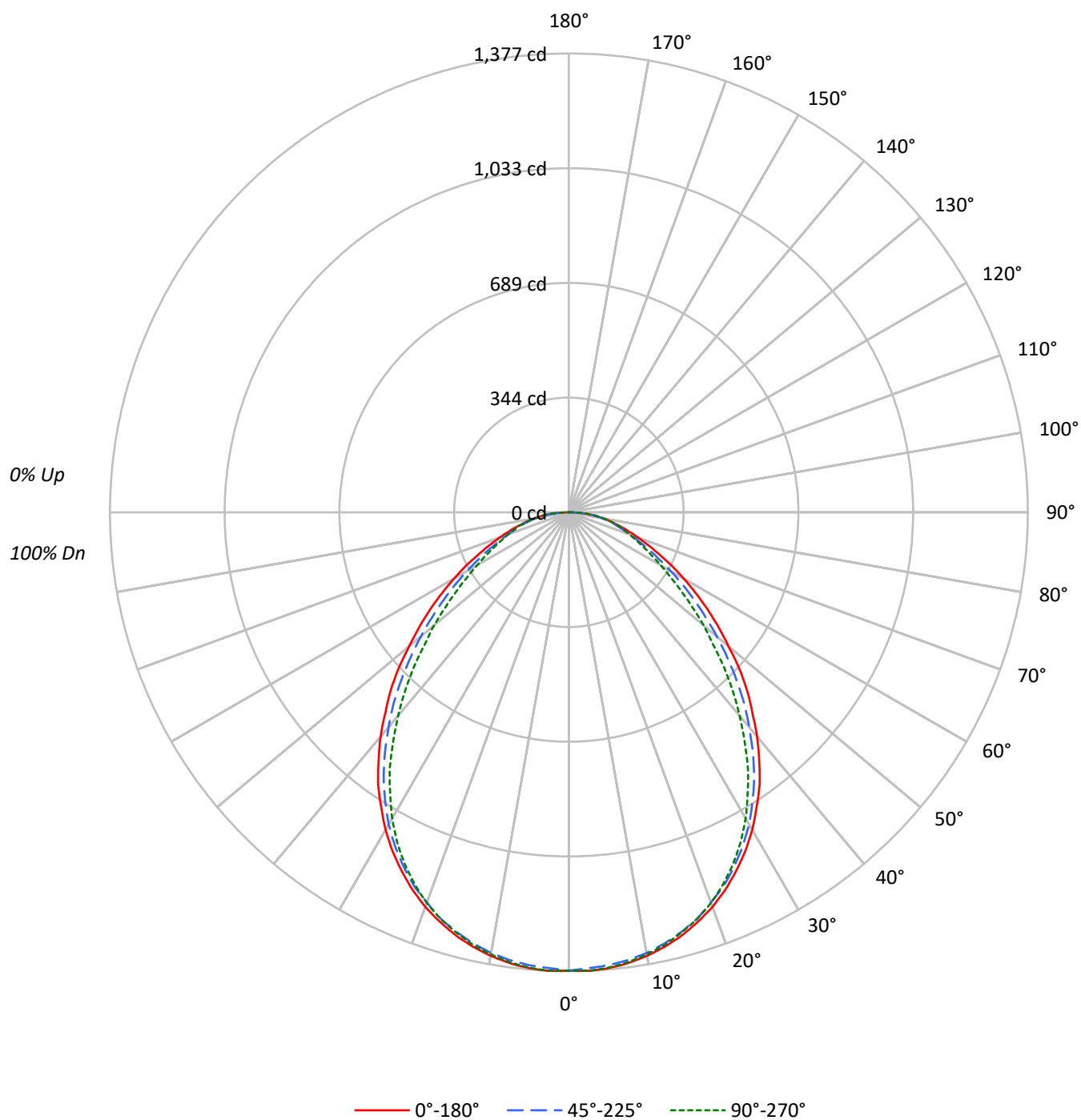
Input Watts (W): 25.482
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3701	3701	3701
5°	3709	3686	3705
10°	3692	3669	3681
15°	3660	3631	3638
20°	3608	3569	3571
25°	3526	3483	3459
30°	3418	3359	3296
35°	3278	3183	3078
40°	3087	2955	2800
45°	2879	2705	2504
50°	2618	2427	2211
55°	2383	2152	1927
60°	2137	1895	1712
65°	1905	1689	1573
70°	1733	1539	1522
75°	1620	1499	1574
80°	1629	1550	1640
85°	1701	1587	1812



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.0	4.2
10°-20°	368.7	11.9
20°-30°	540.5	17.5
30°-40°	603.3	19.5
40°-50°	546.2	17.7
50°-60°	412.4	13.4
60°-70°	269.6	8.7
70°-80°	158.3	5.1
80°-90°	58.0	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°	1039.2	33.7
0°-40°	1642.5	53.2
0°-60°	2601.1	84.3
0°-90°	3087.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3087.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1375	1375	1375	1375	1375	
5°	1373	1370	1364	1372	1372	130
15°	1314	1312	1304	1311	1306	370
25°	1188	1183	1173	1171	1165	546
35°	998	989	969	947	937	621
45°	756	745	711	672	658	581
55°	508	496	459	422	411	454
65°	299	290	265	250	247	300
75°	156	151	144	147	151	167
85°	55	53	51	58	59	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1375.2	1375.2	1375.2	1375.2	1375.2
2.5°	1377.4	1375.2	1368.7	1377.4	1376.7
5°	1373.1	1370.2	1364.4	1372.3	1371.6
7.5°	1364.4	1361.5	1355.7	1362.9	1361.5
10°	1351.3	1348.4	1342.6	1350.6	1347.0
12.5°	1334.7	1331.8	1325.2	1332.5	1329.6
15°	1313.7	1311.5	1303.5	1310.8	1305.7
17.5°	1288.3	1284.7	1278.9	1283.2	1279.6
20°	1260.0	1255.7	1246.3	1250.6	1247.0
22.5°	1226.0	1220.2	1213.7	1213.7	1208.6
25°	1187.6	1183.2	1173.1	1170.9	1165.1
27.5°	1146.3	1142.7	1129.6	1126.0	1115.8
30°	1099.9	1094.8	1081.1	1069.5	1060.8
32.5°	1048.5	1044.8	1026.0	1010.8	998.5
35°	997.7	989.0	968.8	947.0	936.9
37.5°	938.3	931.8	906.4	879.6	865.9
40°	878.9	870.9	841.2	811.5	797.0
42.5°	814.4	807.2	778.9	743.4	728.2
45°	756.5	744.9	710.8	672.4	657.9
47.5°	692.7	680.4	644.1	603.6	586.9
50°	625.3	617.3	579.7	540.5	528.2
52.5°	565.2	552.8	517.3	478.9	465.9
55°	507.9	496.3	458.7	422.4	410.8
57.5°	450.7	437.6	405.0	372.4	360.8
60°	397.1	384.0	352.1	325.3	318.1
62.5°	348.5	334.0	305.8	284.8	279.7
65°	299.2	289.8	265.2	250.0	247.1
67.5°	257.9	246.4	226.8	219.5	218.1
70°	220.3	212.3	195.6	193.5	193.5
72.5°	186.2	179.7	167.4	168.8	171.0
75°	155.8	151.4	144.2	147.1	151.4
77.5°	129.7	125.4	121.0	125.4	128.2
80°	105.1	100.7	100.0	103.6	105.8
82.5°	79.0	75.4	76.1	81.9	84.1
85°	55.1	52.9	51.4	58.0	58.7
87.5°	28.3	26.8	26.1	31.2	29.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)