

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: P290889

Luminaire Tested: **14GR-LD5-20-F125-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290889
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-LD5-20-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: 1820.0 lumens
Efficiency: N/A
Efficacy: 115.8 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

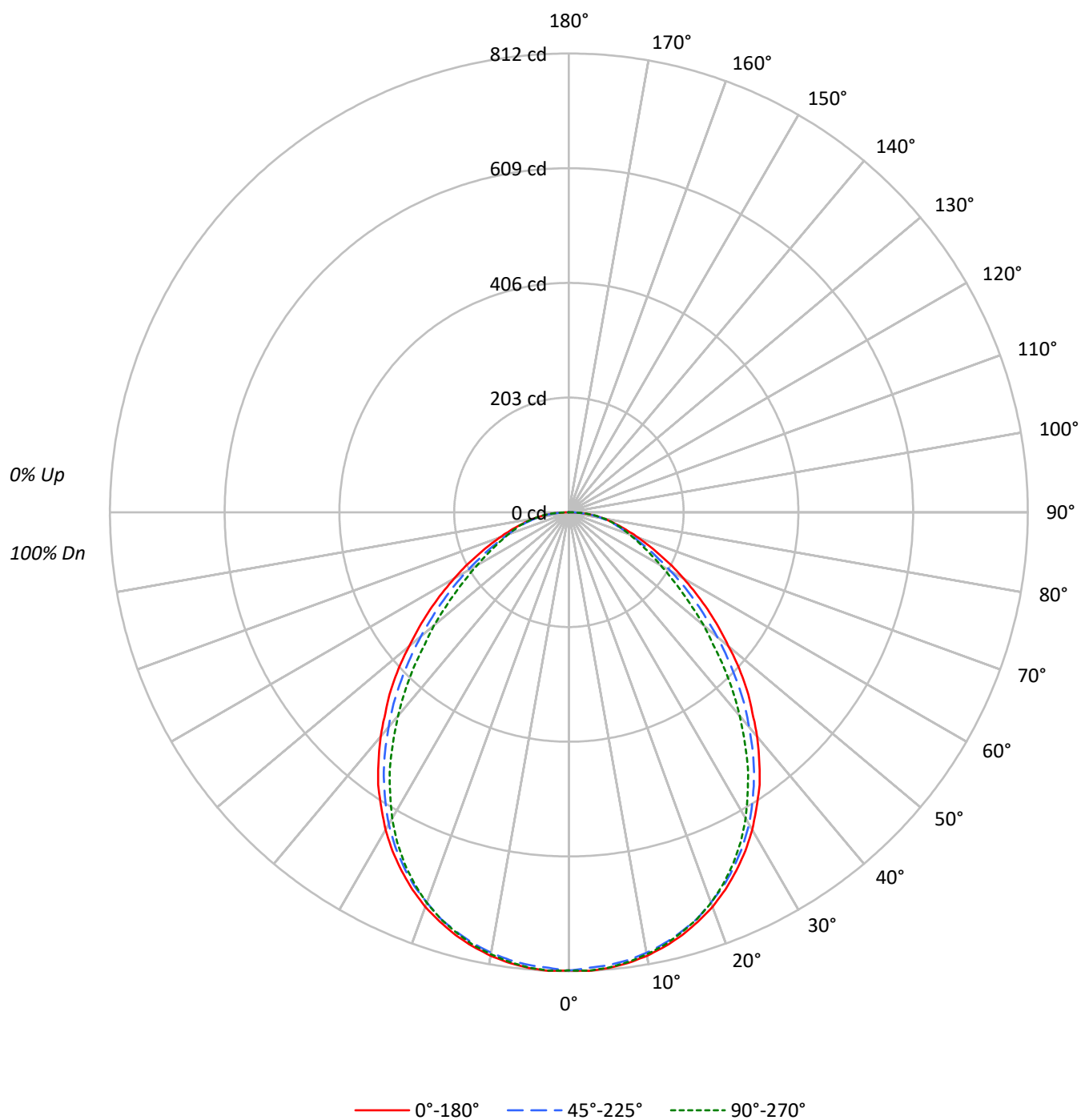
Input Watts (W): 15.717
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85		
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73		
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63		
4	85	74	66	59	83	73	65	59	70	64	58	68	62	58	66	61	57	55		
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48		
6	73	60	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43		
7	68	55	47	41	66	54	47	41	53	46	41	51	45	40	50	44	40	38		
8	64	51	43	37	62	50	42	37	49	42	37	47	41	36	46	41	36	34		
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31		
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	28		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2182	2182	2182
5°	2187	2173	2185
10°	2177	2163	2170
15°	2158	2141	2145
20°	2127	2104	2105
25°	2079	2053	2040
30°	2015	1981	1943
35°	1932	1876	1815
40°	1820	1742	1651
45°	1697	1595	1476
50°	1544	1430	1304
55°	1405	1269	1136
60°	1260	1117	1009
65°	1123	995	928
70°	1022	907	898
75°	954	884	928
80°	959	914	967
85°	1003	936	1068



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.7	4.2
10°-20°	217.3	11.9
20°-30°	318.7	17.5
30°-40°	355.7	19.5
40°-50°	322.0	17.7
50°-60°	243.1	13.4
60°-70°	158.9	8.7
70°-80°	93.3	5.1
80°-90°	34.2	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°	612.7	33.7
0°-40°	968.4	53.2
0°-60°	1533.5	84.3
0°-90°	1820.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1820.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	811	811	811	811	811	
5°	810	808	804	809	809	77
15°	774	773	768	773	770	218
25°	700	698	692	690	687	322
35°	588	583	571	558	552	366
45°	446	439	419	396	388	343
55°	300	293	270	249	242	268
65°	176	171	156	147	146	177
75°	92	89	85	87	89	99
85°	32	31	30	34	35	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	810.8	810.8	810.8	810.8	810.8
2.5°	812.1	810.8	807.0	812.1	811.7
5°	809.5	807.8	804.4	809.1	808.7
7.5°	804.4	802.7	799.3	803.5	802.7
10°	796.7	795.0	791.6	796.3	794.1
12.5°	786.9	785.2	781.3	785.6	783.9
15°	774.5	773.2	768.5	772.8	769.8
17.5°	759.5	757.4	754.0	756.5	754.4
20°	742.9	740.3	734.8	737.3	735.2
22.5°	722.8	719.4	715.5	715.5	712.5
25°	700.2	697.6	691.6	690.3	686.9
27.5°	675.8	673.7	666.0	663.8	657.9
30°	648.5	645.5	637.4	630.5	625.4
32.5°	618.1	616.0	604.9	595.9	588.7
35°	588.2	583.1	571.1	558.3	552.4
37.5°	553.2	549.4	534.4	518.6	510.5
40°	518.2	513.5	496.0	478.4	469.9
42.5°	480.2	475.9	459.2	438.3	429.3
45°	446.0	439.1	419.1	396.4	387.9
47.5°	408.4	401.1	379.8	355.8	346.0
50°	368.7	364.0	341.7	318.7	311.4
52.5°	333.2	325.9	305.0	282.4	274.7
55°	299.5	292.6	270.4	249.0	242.2
57.5°	265.7	258.0	238.8	219.6	212.7
60°	234.1	226.4	207.6	191.8	187.5
62.5°	205.5	196.9	180.3	167.9	164.9
65°	176.4	170.9	156.3	147.4	145.7
67.5°	152.1	145.2	133.7	129.4	128.6
70°	129.9	125.2	115.3	114.1	114.1
72.5°	109.8	105.9	98.7	99.5	100.8
75°	91.8	89.3	85.0	86.7	89.3
77.5°	76.5	73.9	71.3	73.9	75.6
80°	61.9	59.4	59.0	61.1	62.4
82.5°	46.6	44.4	44.9	48.3	49.6
85°	32.5	31.2	30.3	34.2	34.6
87.5°	16.7	15.8	15.4	18.4	17.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)