

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: P291246

Luminaire Tested: **14GR-LD5-20-A125-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291246
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33315)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-20-A125-UNV-L93050-W2A1-U-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1948.0 lumens
Efficiency: N/A
Efficacy: 120.4 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

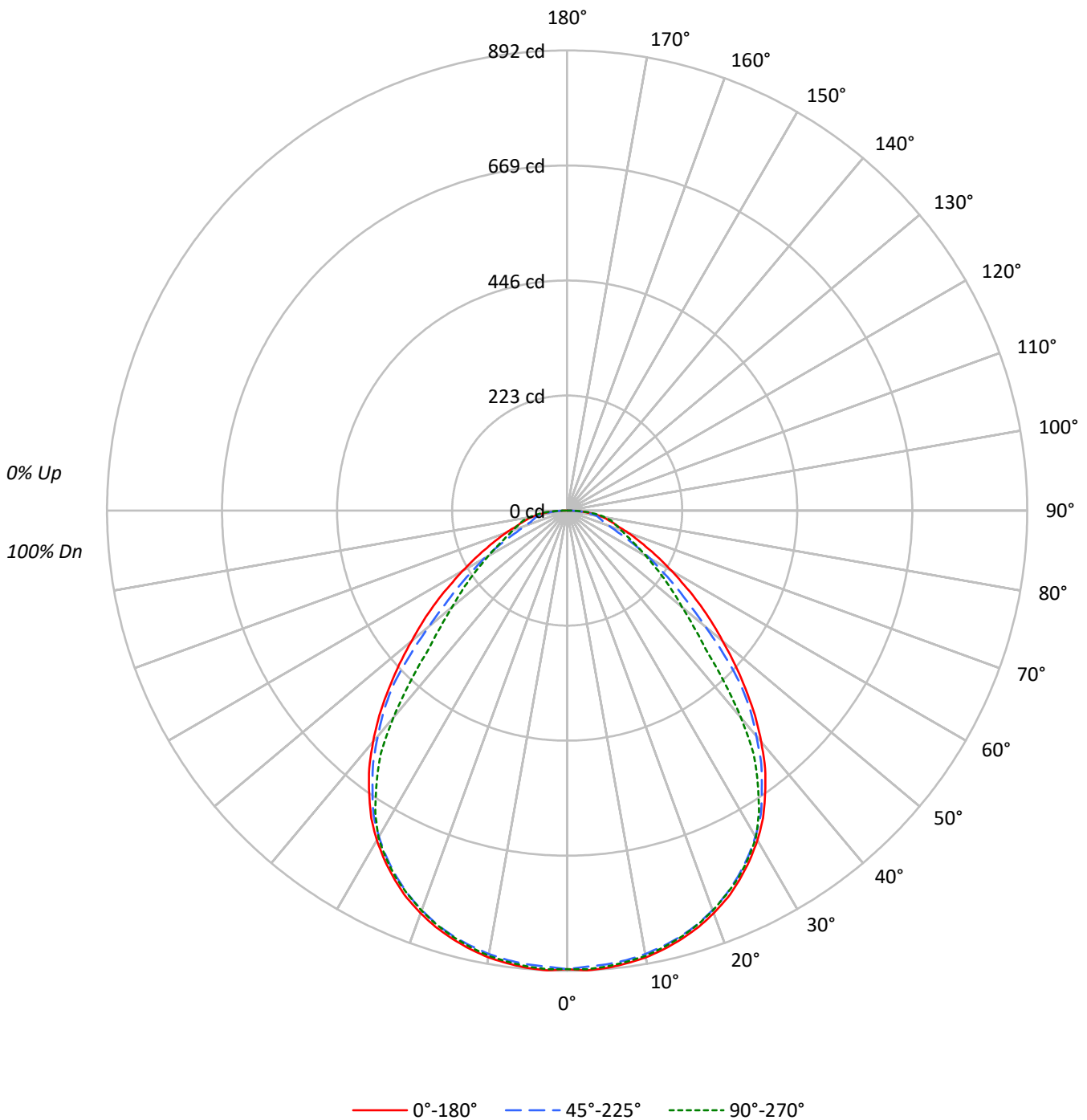
Input Watts (W): 16.182
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	94	88	82	99	92	86	82	88	84	80	85	81	78	82	79	76	74					74			
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56					56			
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50					50			
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44					44			
7	69	56	48	43	67	56	48	42	54	47	42	53	47	42	52	46	42	40					40			
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36					36			
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	33					33			
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	30					30			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2392	2392	2392
5°	2404	2385	2396
10°	2403	2385	2394
15°	2395	2379	2383
20°	2379	2361	2363
25°	2347	2325	2332
30°	2293	2268	2274
35°	2199	2162	2116
40°	2056	2005	1840
45°	1861	1808	1443
50°	1646	1462	1217
55°	1457	1202	1073
60°	1257	995	951
65°	1093	791	875
70°	988	679	875
75°	949	709	977
80°	1057	903	1142
85°	1118	963	1368



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.3	4.3
10°-20°	241.6	12.4
20°-30°	361.6	18.6
30°-40°	409.4	21.0
40°-50°	348.7	17.9
50°-60°	236.1	12.1
60°-70°	141.0	7.2
70°-80°	88.1	4.5
80°-90°	37.2	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°	687.6	35.3
0°-40°	1097.0	56.3
0°-60°	1681.8	86.3
0°-90°	1948.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1948.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	889	889	889	889	889	
5°	890	888	883	888	887	85
15°	860	856	854	860	856	242
25°	790	788	783	787	785	364
35°	669	665	658	651	644	417
45°	489	490	475	405	379	377
55°	310	293	256	229	229	278
65°	172	143	124	133	137	173
75°	91	82	68	90	94	99
85°	36	33	31	39	44	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	888.9	888.9	888.9	888.9	888.9
2.5°	892.1	889.8	884.9	890.7	889.8
5°	889.8	887.6	883.1	888.5	887.1
7.5°	885.3	883.1	879.0	884.4	882.2
10°	879.4	876.7	872.7	878.5	876.3
12.5°	870.4	867.7	864.1	870.0	866.8
15°	859.6	856.4	854.1	859.6	855.5
17.5°	846.5	843.7	840.6	846.0	841.5
20°	830.6	828.4	824.3	827.5	825.2
22.5°	812.6	809.4	805.3	808.9	805.8
25°	790.4	788.2	783.2	786.8	785.4
27.5°	765.1	763.8	757.9	762.4	760.1
30°	738.0	734.4	729.9	731.2	731.7
32.5°	706.8	702.3	698.7	695.5	692.3
35°	669.3	665.2	658.0	651.2	644.0
37.5°	630.4	625.0	617.8	602.9	593.8
40°	585.2	582.5	570.8	550.0	523.8
42.5°	539.1	536.4	526.0	479.5	451.0
45°	489.0	490.3	475.0	404.9	379.2
47.5°	441.1	444.7	411.3	345.7	332.2
50°	393.2	397.2	349.3	298.7	290.6
52.5°	351.1	348.0	297.8	262.1	258.5
55°	310.5	293.3	256.2	228.7	228.7
57.5°	268.9	244.5	217.8	200.2	200.2
60°	233.6	203.4	184.8	173.1	176.7
62.5°	201.1	169.0	153.2	150.9	155.5
65°	171.7	143.3	124.3	132.9	137.4
67.5°	147.8	122.5	102.1	120.2	122.9
70°	125.6	106.7	86.3	110.7	111.2
72.5°	105.3	94.0	74.1	100.3	102.1
75°	91.3	81.8	68.2	89.5	94.0
77.5°	80.0	70.0	62.8	77.3	85.9
80°	68.2	57.4	58.3	65.1	73.7
82.5°	52.4	44.3	46.1	53.3	60.1
85°	36.2	33.4	31.2	39.3	44.3
87.5°	19.4	18.1	15.8	22.1	22.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)