

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: P291085

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291085
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33314)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-20-A-UNV-L92765-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1840.0 lumens
Efficiency: N/A
Efficacy: 117.1 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

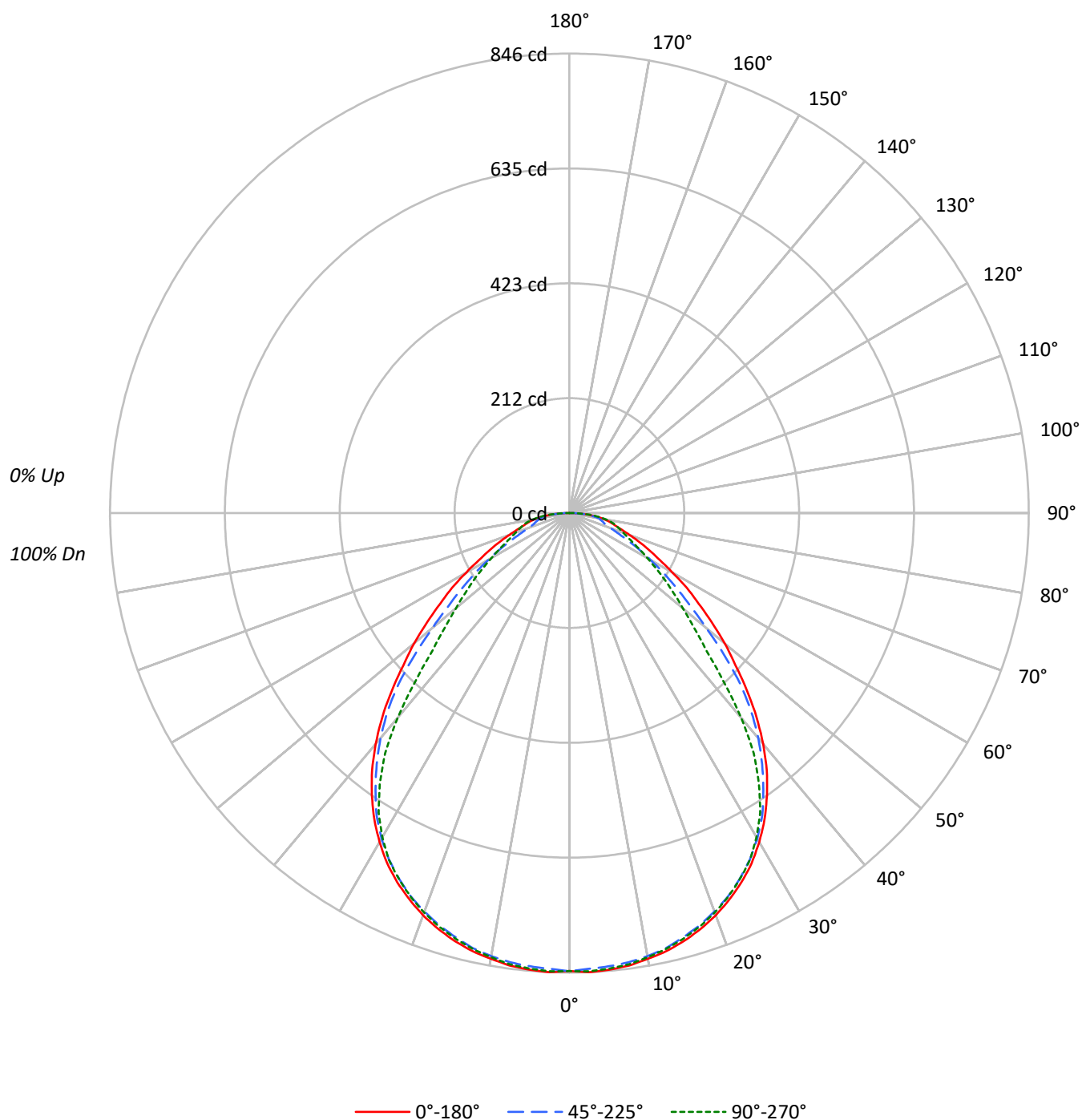
Input Watts (W): 15.717
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	110	106	102	98	107	103	100	97		99	96	94		95	93	91		92	90	88
2	101	94	88	83	99	92	86	82		88	84	80		85	81	78		82	79	76
3	93	84	76	71	91	82	75	70		79	73	69		77	72	68		74	70	66
4	86	75	67	61	84	74	67	61		72	65	60		69	64	59		67	62	58
5	80	68	60	54	78	67	59	53		65	58	53		63	57	52		61	56	52
6	74	62	54	48	72	61	53	47		59	52	47		58	51	47		56	51	46
7	69	57	48	43	67	56	48	43		54	47	42		53	47	42		52	46	42
8	65	52	44	38	63	51	44	38		50	43	38		49	43	38		48	42	38
9	61	48	40	35	59	47	40	35		46	39	35		45	39	35		44	39	34
10	57	44	37	32	56	44	37	32		43	36	32		42	36	32		41	36	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2269	2269	2269
5°	2280	2263	2274
10°	2277	2263	2269
15°	2273	2253	2260
20°	2257	2236	2242
25°	2227	2205	2207
30°	2173	2150	2141
35°	2083	2046	1999
40°	1950	1900	1729
45°	1761	1695	1351
50°	1562	1376	1143
55°	1363	1129	1009
60°	1182	929	890
65°	1037	746	822
70°	924	632	827
75°	902	666	924
80°	1000	841	1060
85°	1044	898	1241



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.0	4.3
10°-20°	229.2	12.5
20°-30°	342.8	18.6
30°-40°	387.0	21.0
40°-50°	328.3	17.8
50°-60°	222.1	12.1
60°-70°	132.6	7.2
70°-80°	83.0	4.5
80°-90°	35.0	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°	652.0	35.4
0°-40°	1039.0	56.5
0°-60°	1589.4	86.4
0°-90°	1840.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1840.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	843	843	843	843	843	
5°	844	842	838	844	842	80
15°	816	814	809	814	811	230
25°	750	747	743	746	743	345
35°	634	630	623	617	609	395
45°	463	464	445	382	355	357
55°	291	277	241	215	215	262
65°	163	135	117	125	129	163
75°	87	77	64	85	89	93
85°	34	32	29	38	40	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	843.2	843.2	843.2	843.2	843.2
2.5°	846.2	843.6	839.8	844.9	844.5
5°	844.0	841.5	837.6	843.6	841.9
7.5°	840.2	838.0	834.2	839.8	838.0
10°	833.3	831.6	828.2	832.9	830.3
12.5°	826.1	824.8	820.5	824.8	822.2
15°	815.8	814.1	808.6	814.1	811.1
17.5°	803.0	800.9	796.2	800.9	798.3
20°	788.0	785.5	780.8	785.5	782.9
22.5°	770.1	768.0	763.7	768.0	764.5
25°	750.0	747.4	742.7	746.2	743.2
27.5°	726.9	723.5	719.2	721.8	720.1
30°	699.2	694.9	691.9	691.9	688.9
32.5°	668.8	665.8	660.7	657.7	653.9
35°	634.2	629.9	622.7	617.1	608.6
37.5°	597.0	591.9	582.9	568.8	557.3
40°	555.1	548.7	541.0	513.3	492.3
42.5°	510.3	509.0	495.7	448.3	419.2
45°	462.8	464.5	445.3	381.6	355.1
47.5°	415.0	420.9	385.9	323.5	309.8
50°	373.1	375.2	328.6	280.8	273.1
52.5°	329.9	326.5	280.3	247.0	241.5
55°	290.6	276.9	240.6	215.4	215.0
57.5°	256.0	230.8	205.6	186.8	188.9
60°	219.7	191.5	172.7	162.4	165.4
62.5°	187.6	160.7	144.0	141.0	146.2
65°	162.8	135.0	117.1	124.8	129.1
67.5°	139.3	115.8	95.3	113.7	115.4
70°	117.5	100.4	80.3	104.7	105.1
72.5°	99.6	88.9	69.7	94.9	96.2
75°	86.8	77.4	64.1	84.6	88.9
77.5°	76.1	66.2	59.4	73.1	80.3
80°	64.5	53.4	54.3	61.1	68.4
82.5°	49.6	41.5	43.2	50.4	55.6
85°	33.8	32.1	29.1	37.6	40.2
87.5°	17.9	17.1	15.0	21.4	20.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)