

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: P290985

Luminaire Tested: **14GR-LD5-20-A-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290985
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-L82765-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1967.0 lumens
Efficiency: N/A
Efficacy: 127.4 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

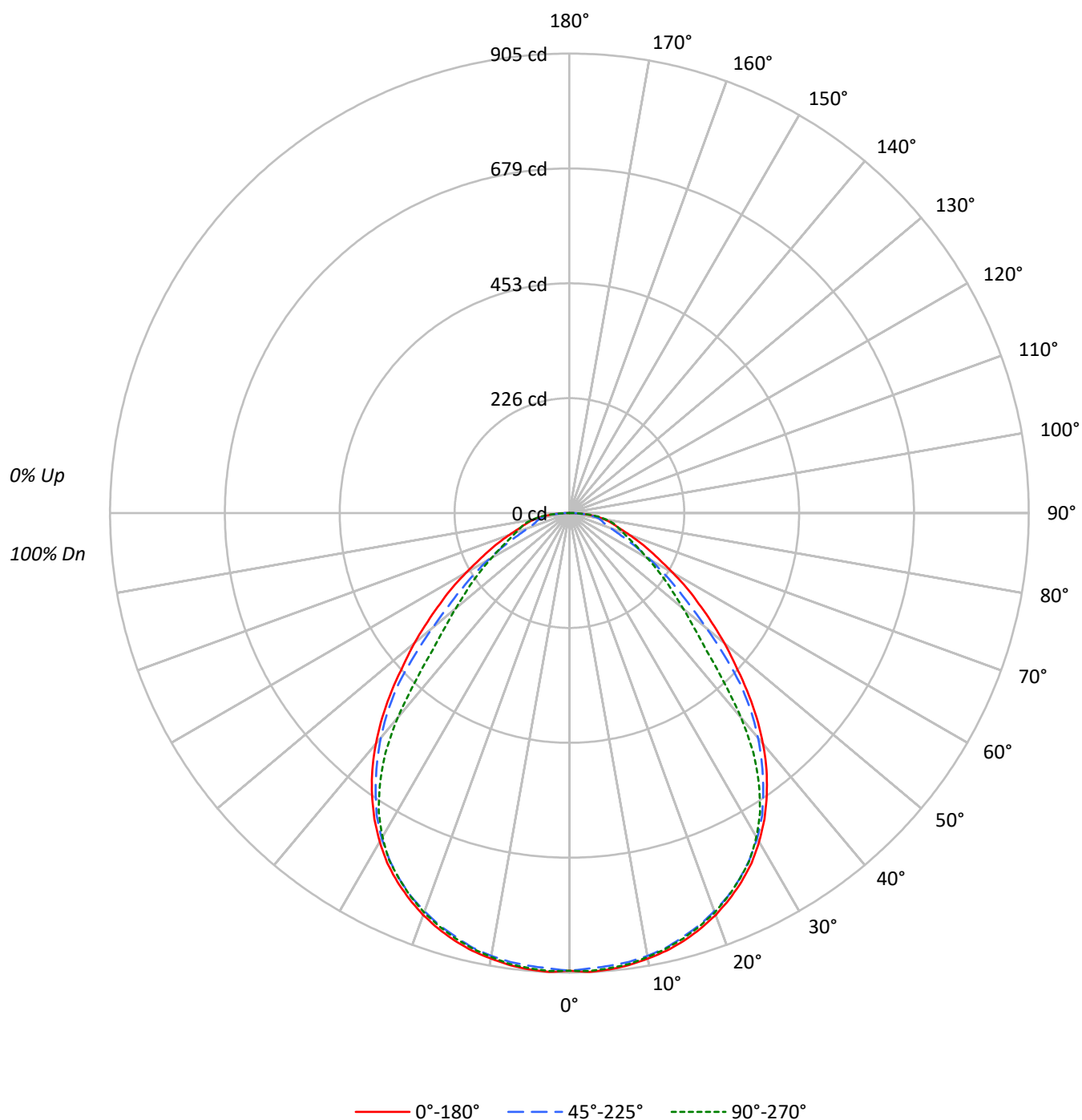
Input Watts (W): 15.438
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	74	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°	2426	2426	2426
5°	2437	2419	2431
10°	2434	2419	2426
15°	2430	2408	2416
20°	2412	2390	2397
25°	2381	2358	2359
30°	2322	2298	2288
35°	2227	2187	2137
40°	2085	2032	1849
45°	1883	1811	1445
50°	1670	1471	1222
55°	1458	1207	1078
60°	1264	994	952
65°	1109	797	879
70°	988	676	884
75°	964	712	988
80°	1069	899	1133
85°	1115	960	1325



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.5	4.3
10°-20°	245.0	12.5
20°-30°	366.5	18.6
30°-40°	413.7	21.0
40°-50°	351.0	17.8
50°-60°	237.5	12.1
60°-70°	141.8	7.2
70°-80°	88.8	4.5
80°-90°	37.3	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°	697.0	35.4
0°-40°	1110.7	56.5
0°-60°	1699.1	86.4
0°-90°	1967.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1967.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	901	901	901	901	901	
5°	902	900	895	902	900	86
15°	872	870	864	870	867	246
25°	802	799	794	798	794	369
35°	678	673	666	660	651	422
45°	495	497	476	408	380	381
55°	311	296	257	230	230	280
65°	174	144	125	133	138	174
75°	93	83	68	90	95	100
85°	36	34	31	40	43	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	901.4	901.4	901.4	901.4	901.4
2.5°	904.6	901.8	897.7	903.2	902.7
5°	902.3	899.5	895.4	901.8	900.0
7.5°	898.2	895.9	891.8	897.7	895.9
10°	890.9	889.0	885.4	890.4	887.7
12.5°	883.1	881.7	877.2	881.7	879.0
15°	872.1	870.3	864.4	870.3	867.1
17.5°	858.4	856.1	851.1	856.1	853.4
20°	842.4	839.7	834.7	839.7	837.0
22.5°	823.2	821.0	816.4	821.0	817.3
25°	801.8	799.0	794.0	797.7	794.5
27.5°	777.1	773.4	768.9	771.6	769.8
30°	747.4	742.8	739.6	739.6	736.4
32.5°	715.0	711.8	706.3	703.1	699.0
35°	678.0	673.4	665.6	659.7	650.6
37.5°	638.2	632.7	623.1	608.1	595.7
40°	593.4	586.6	578.4	548.7	526.3
42.5°	545.5	544.1	529.9	479.2	448.2
45°	494.8	496.6	476.0	408.0	379.6
47.5°	443.6	450.0	412.5	345.8	331.2
50°	398.8	401.1	351.3	300.2	291.9
52.5°	352.7	349.0	299.7	264.1	258.1
55°	310.7	296.0	257.2	230.3	229.8
57.5°	273.7	246.7	219.7	199.6	201.9
60°	234.8	204.7	184.6	173.6	176.8
62.5°	200.6	171.8	154.0	150.8	156.2
65°	174.1	144.4	125.2	133.4	138.0
67.5°	148.9	123.8	101.9	121.5	123.3
70°	125.6	107.4	85.9	111.9	112.4
72.5°	106.4	95.0	74.5	101.4	102.8
75°	92.7	82.7	68.5	90.5	95.0
77.5°	81.3	70.8	63.5	78.1	85.9
80°	69.0	57.1	58.0	65.3	73.1
82.5°	53.0	44.3	46.1	53.9	59.4
85°	36.1	34.3	31.1	40.2	42.9
87.5°	19.2	18.3	16.0	22.8	21.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)