

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: P291382

Luminaire Tested: **14GR-LD5-20-A19/156-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291382
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33288)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-20-A19/156-UNV-L82765-W2A1-U-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2084.0 lumens
Efficiency: N/A
Efficacy: 130.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.23 / 1.18
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

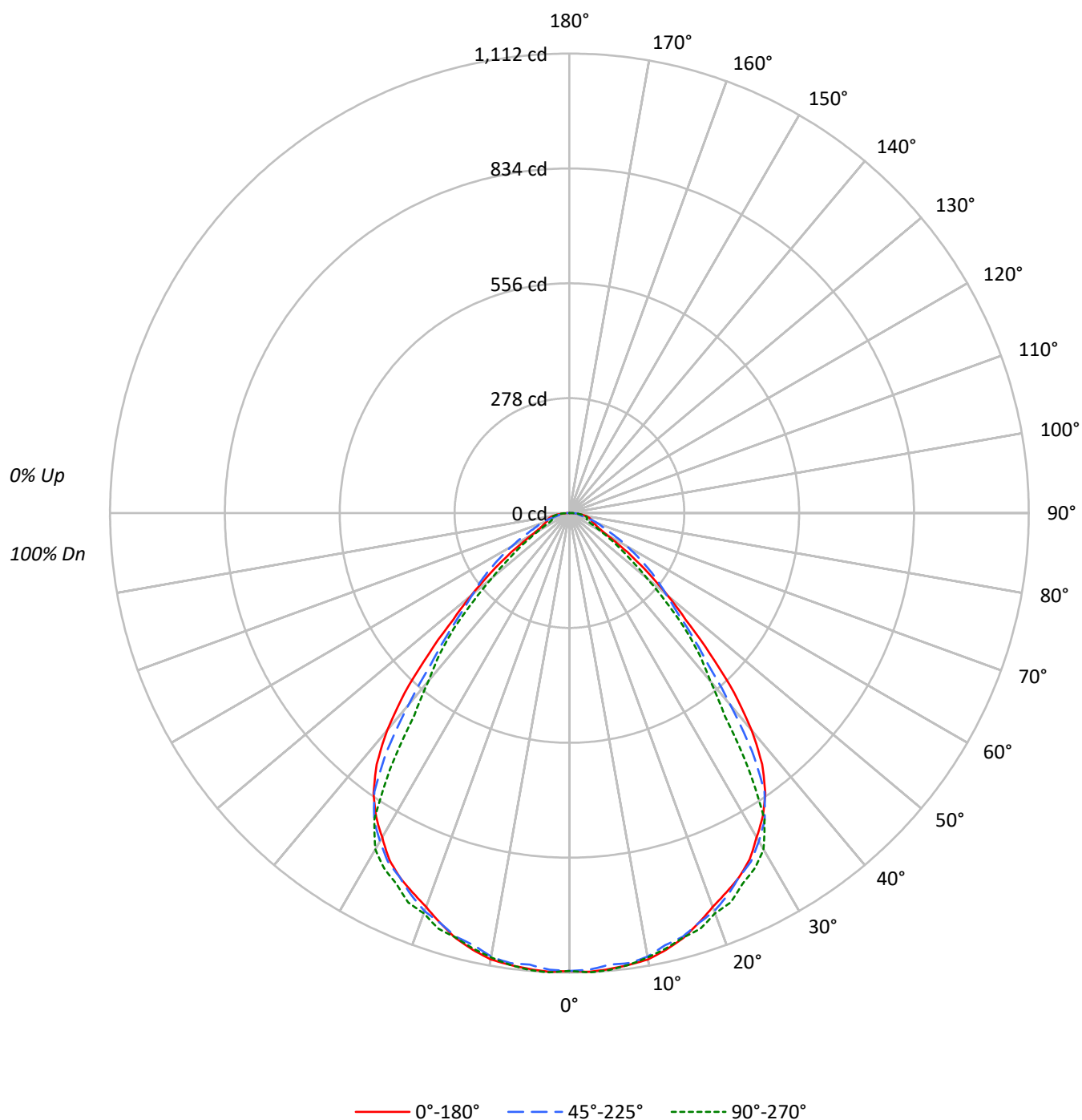
Input Watts (W): 15.996
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	104	100	108	105	102	99	101	98	96		97	95	93		93
2	103	96	90	86	100	94	89	85	91	87	83		88	84	81		85
3	95	87	80	74	93	85	79	74	82	77	73		80	75	71		77
4	89	79	71	65	87	77	70	65	75	69	64		73	68	63		71
5	83	71	64	58	81	70	63	58	68	62	57		67	61	57		65
6	77	65	58	52	75	64	57	52	63	56	51		61	55	51		60
7	72	60	52	47	70	59	52	47	58	51	46		56	51	46		55
8	67	55	48	43	66	55	47	42	53	47	42		52	46	42		51
9	63	51	44	39	62	51	44	39	50	43	39		49	43	38		48
10	60	48	40	36	58	47	40	36	46	40	35		45	39	35		44

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2982	2982	2982
5°	2992	2964	2999
10°	2997	2979	2984
15°	2966	2956	2962
20°	2904	2936	2952
25°	2887	2885	2941
30°	2816	2851	2920
35°	2716	2705	2485
40°	2412	2128	1864
45°	1830	1592	1507
50°	1298	1274	1023
55°	889	1088	703
60°	549	868	470
65°	453	669	340
70°	450	581	349
75°	541	417	466
80°	621	384	584
85°	590	676	664



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.1	5.0
10°-20°	300.1	14.4
20°-30°	451.3	21.7
30°-40°	492.0	23.6
40°-50°	344.5	16.5
50°-60°	195.0	9.4
60°-70°	106.7	5.1
70°-80°	64.7	3.1
80°-90°	24.5	1.2
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°	856.6	41.1
0°-40°	1348.6	64.7
0°-60°	1888.1	90.6
0°-90°	2084.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2084.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1108	1108	1108	1108	1108	
5°	1108	1106	1097	1110	1110	105
15°	1065	1062	1061	1076	1063	299
25°	972	974	972	994	990	447
35°	827	823	823	781	757	509
45°	481	502	418	413	396	373
55°	189	227	232	230	150	173
65°	71	117	105	133	53	73
75°	52	75	40	79	45	54
85°	19	31	22	27	22	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1108.2	1108.2	1108.2	1108.2	1108.2
2.5°	1111.1	1109.6	1106.3	1113.0	1112.5
5°	1107.7	1105.8	1097.2	1110.1	1110.1
7.5°	1102.9	1098.2	1098.6	1105.8	1102.5
10°	1096.7	1088.6	1090.1	1092.0	1092.0
12.5°	1082.4	1074.8	1071.0	1077.2	1079.1
15°	1064.8	1061.9	1061.0	1076.2	1063.3
17.5°	1040.0	1046.2	1040.4	1052.9	1054.8
20°	1014.2	1026.1	1025.2	1033.8	1030.9
22.5°	993.2	1000.9	1000.9	1011.3	1019.9
25°	972.2	974.1	971.8	994.2	990.4
27.5°	945.0	943.6	951.2	962.7	970.3
30°	906.4	906.9	917.4	932.6	939.8
32.5°	871.1	866.8	879.7	886.4	878.7
35°	826.7	822.9	823.4	781.4	756.6
37.5°	766.1	769.5	725.6	648.8	616.4
40°	686.5	693.2	605.9	548.6	530.5
42.5°	590.1	592.0	496.6	478.0	466.1
45°	480.9	501.9	418.4	413.1	396.0
47.5°	381.2	420.3	350.6	354.0	312.9
50°	310.1	349.2	304.4	305.8	244.3
52.5°	245.2	283.4	268.6	264.3	191.8
55°	189.4	226.6	231.8	229.9	149.8
57.5°	139.3	179.4	194.6	201.8	115.4
60°	102.1	146.5	161.2	175.6	87.3
62.5°	81.1	126.9	132.1	153.1	67.7
65°	71.1	116.9	105.0	132.6	53.4
67.5°	63.4	111.2	85.4	117.4	46.8
70°	57.2	100.2	73.9	105.0	44.4
72.5°	57.2	87.8	58.2	93.0	44.8
75°	52.0	74.9	40.1	78.7	44.8
77.5°	46.3	63.9	30.1	63.9	42.0
80°	40.1	50.1	24.8	49.1	37.7
82.5°	29.6	37.7	21.5	36.7	30.5
85°	19.1	31.0	21.9	26.7	21.5
87.5°	9.1	15.7	13.8	13.4	11.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)