

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: P292559

Luminaire Tested: **22GR-LD5-20-A19/156-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292559
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33284)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-20-A19/156-UNV-L82765-W2A1-U-5700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2134.0 lumens
Efficiency: N/A
Efficacy: 134.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.21
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

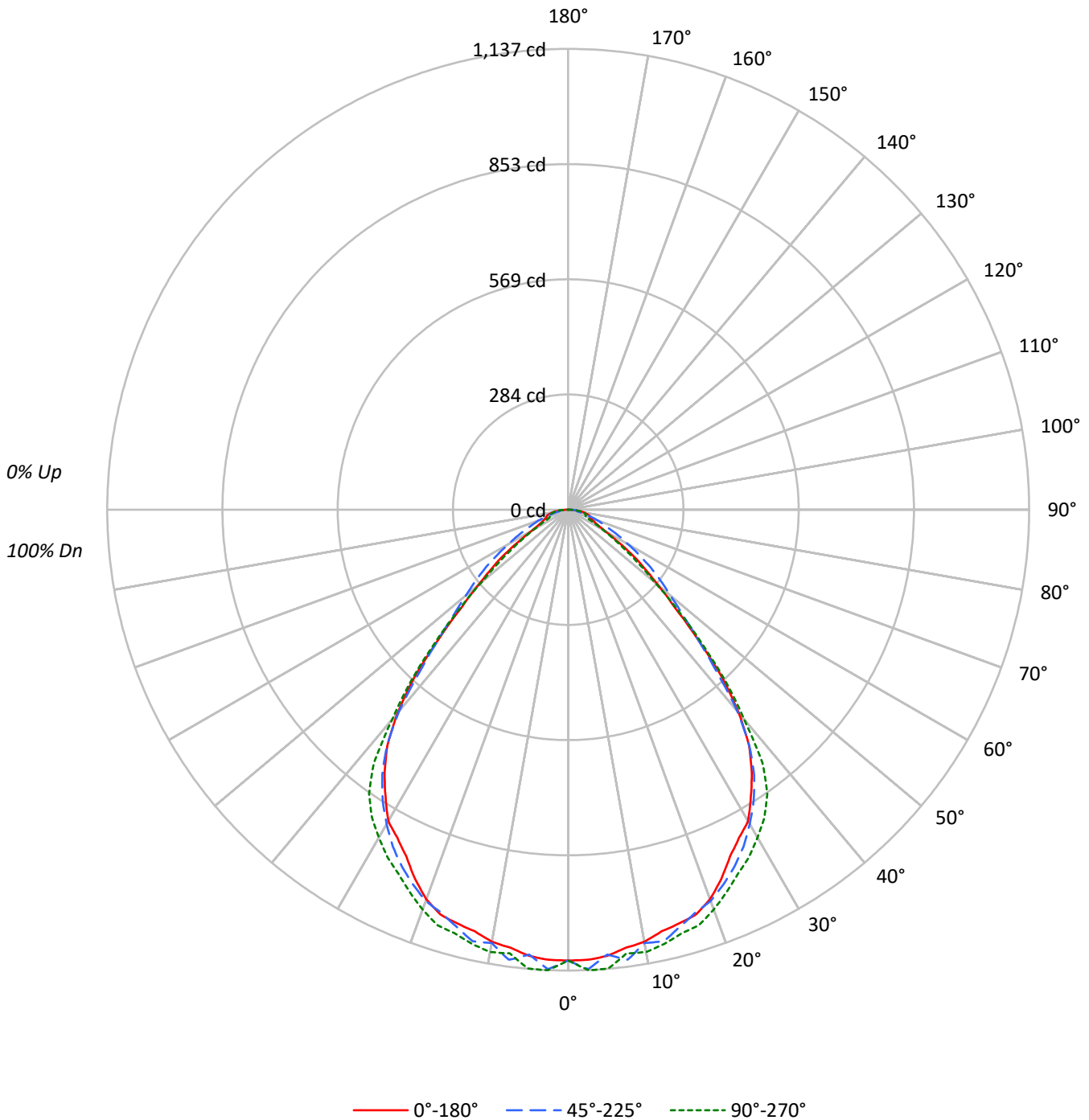
Input Watts (W): 15.903
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	111	107	103	100	108	105	102	99	101	98	96		97	95	93		93	91	90	88
2	103	96	90	85	100	94	89	85	91	86	83		88	84	81		85	82	79	77
3	95	86	79	74	93	85	79	73	82	77	72		79	75	71		77	73	70	68
4	88	78	71	65	86	77	70	64	75	68	64		72	67	63		70	66	62	60
5	82	71	63	58	80	70	63	57	68	62	57		66	61	56		64	59	56	54
6	77	65	57	51	75	64	57	51	62	56	51		61	55	50		59	54	50	48
7	72	60	52	46	70	59	51	46	57	51	46		56	50	46		55	49	45	44
8	67	55	47	42	66	54	47	42	53	46	42		52	46	41		51	45	41	40
9	63	51	43	38	62	50	43	38	49	43	38		48	42	38		47	42	38	36
10	59	47	40	35	58	47	40	35	46	39	35		45	39	35		44	39	35	33

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2993	2993	2993
5°	2985	2976	3069
10°	2958	2966	3028
15°	2944	2967	3014
20°	2929	2943	3006
25°	2803	2883	2942
30°	2757	2783	2901
35°	2593	2626	2813
40°	2298	2282	2372
45°	1716	1720	1768
50°	1208	1374	1171
55°	892	1161	799
60°	558	917	522
65°	455	727	365
70°	451	605	360
75°	559	444	465
80°	623	350	569
85°	621	651	636



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.9	5.0
10°-20°	301.6	14.1
20°-30°	446.6	20.9
30°-40°	500.3	23.4
40°-50°	367.6	17.2
50°-60°	205.5	9.6
60°-70°	114.5	5.4
70°-80°	67.3	3.2
80°-90°	24.7	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°	854.1	40.0
0°-40°	1354.4	63.5
0°-60°	1927.5	90.3
0°-90°	2134.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2134.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1112	1112	1112	1112	1112	
5°	1105	1126	1102	1124	1136	105
15°	1057	1063	1065	1081	1082	298
25°	944	952	971	984	991	438
35°	789	790	799	836	856	489
45°	451	488	452	484	465	352
55°	190	231	247	247	170	170
65°	71	127	114	146	57	74
75°	54	76	43	86	45	54
85°	20	30	21	27	21	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1112.2	1112.2	1112.2	1112.2	1112.2
2.5°	1111.7	1121.7	1134.8	1136.3	1137.3
5°	1105.1	1125.8	1101.6	1124.2	1136.3
7.5°	1090.1	1102.6	1120.2	1097.6	1104.1
10°	1082.5	1085.5	1085.5	1113.7	1108.2
12.5°	1065.4	1085.5	1090.6	1085.0	1097.1
15°	1056.9	1063.4	1064.9	1081.0	1082.0
17.5°	1047.3	1045.8	1042.3	1053.9	1074.5
20°	1022.7	1017.2	1027.7	1041.8	1049.8
22.5°	986.5	988.0	1000.6	1012.1	1021.2
25°	944.2	951.8	970.9	984.5	991.0
27.5°	912.6	923.6	936.7	952.8	965.9
30°	887.4	886.4	895.5	918.6	933.7
32.5°	838.7	842.2	851.7	879.4	900.5
35°	789.4	789.9	799.4	835.6	856.3
37.5°	732.6	728.5	734.1	773.3	786.9
40°	654.1	655.1	649.6	677.3	675.3
42.5°	562.6	570.7	542.0	578.2	575.7
45°	451.0	487.7	452.0	484.2	464.6
47.5°	356.0	410.3	380.6	404.2	367.5
50°	288.6	344.4	328.3	338.9	279.6
52.5°	236.8	282.1	287.1	289.6	218.2
55°	190.1	231.3	247.4	246.9	170.4
57.5°	140.3	188.0	206.6	214.2	129.2
60°	103.6	156.4	170.4	187.0	97.0
62.5°	83.5	137.3	140.8	163.9	73.9
65°	71.4	126.7	114.1	146.3	57.3
67.5°	63.4	118.2	93.0	130.7	48.8
70°	57.3	105.1	76.9	117.2	45.8
72.5°	55.8	89.5	59.3	104.6	45.3
75°	53.8	75.9	42.7	86.0	44.7
77.5°	46.3	64.9	30.7	66.4	41.7
80°	40.2	51.8	22.6	49.8	36.7
82.5°	31.2	39.2	20.1	37.7	29.7
85°	20.1	29.7	21.1	27.2	20.6
87.5°	9.6	16.6	15.1	14.6	10.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)