

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: P292560

Luminaire Tested: **22GR-LD5-20-A19/156-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292560
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-6500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2140.0 lumens
Efficiency: N/A
Efficacy: 133.0 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

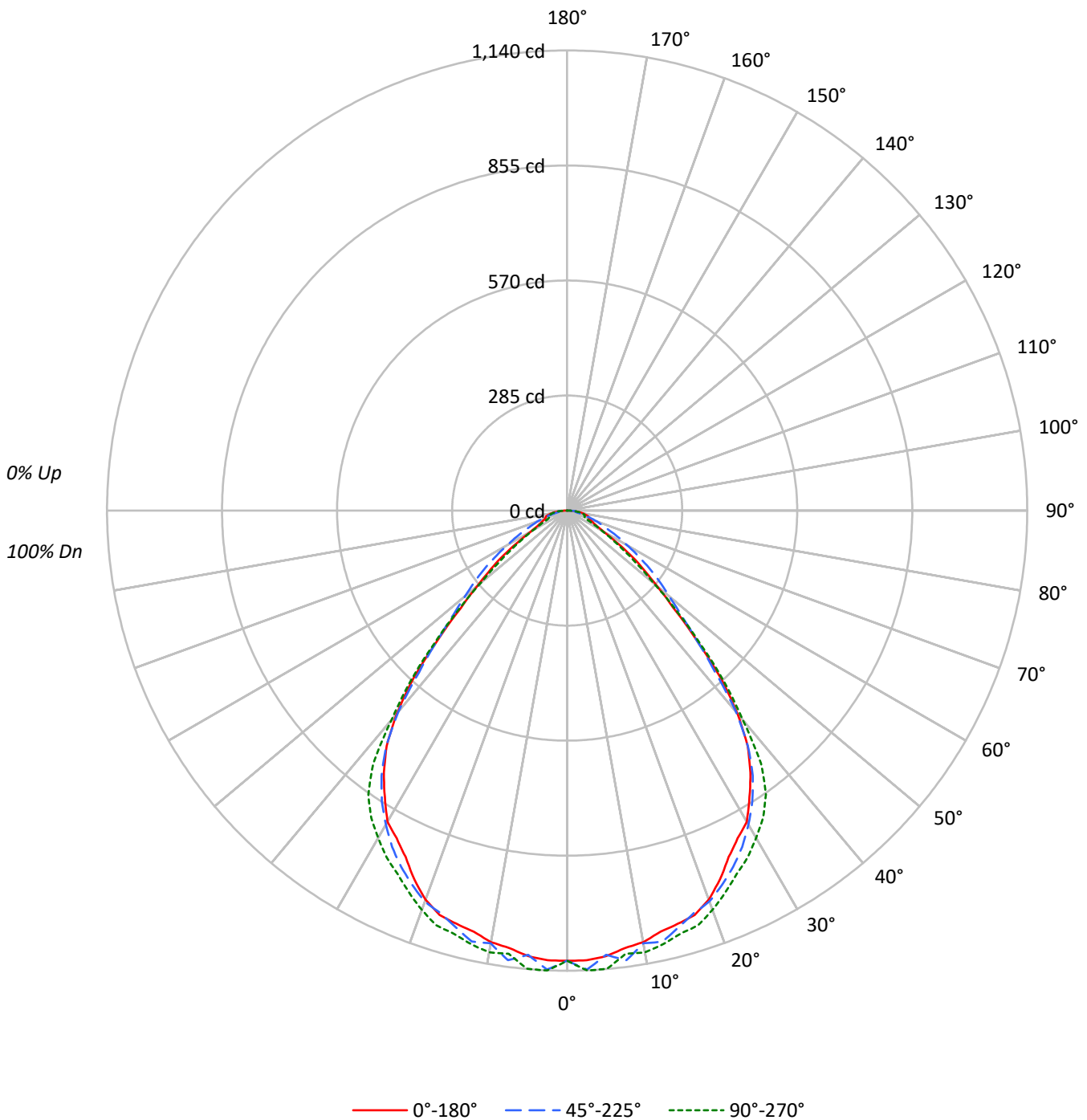
Input Watts (W): 16.089
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3001	3001	3001
5°	2994	2984	3078
10°	2966	2975	3037
15°	2953	2975	3023
20°	2937	2951	3015
25°	2812	2891	2951
30°	2765	2790	2909
35°	2600	2634	2821
40°	2304	2288	2379
45°	1721	1725	1773
50°	1212	1378	1173
55°	894	1164	802
60°	559	920	524
65°	456	729	366
70°	452	607	361
75°	561	446	467
80°	625	352	570
85°	624	655	639



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.2	5.0
10°-20°	302.4	14.1
20°-30°	447.9	20.9
30°-40°	501.7	23.4
40°-50°	368.6	17.2
50°-60°	206.1	9.6
60°-70°	114.9	5.4
70°-80°	67.5	3.2
80°-90°	24.8	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°	856.5	40.0
0°-40°	1358.2	63.5
0°-60°	1932.9	90.3
0°-90°	2140.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2140.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1115	1115	1115	1115	1115	
5°	1108	1129	1105	1127	1140	105
15°	1060	1066	1068	1084	1085	299
25°	947	954	974	987	994	439
35°	792	792	802	838	859	490
45°	452	489	453	486	466	353
55°	191	232	248	248	171	170
65°	72	127	114	147	58	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°	1115.3	1115.3	1115.3	1115.3	1115.3
2.5°	1114.8	1124.9	1138.0	1139.5	1140.5
5°	1108.2	1128.9	1104.7	1127.4	1139.5
7.5°	1093.1	1105.7	1123.4	1100.7	1107.2
10°	1085.6	1088.6	1088.6	1116.8	1111.3
12.5°	1068.4	1088.6	1093.6	1088.1	1100.2
15°	1059.8	1066.4	1067.9	1084.0	1085.1
17.5°	1050.3	1048.8	1045.2	1056.8	1077.5
20°	1025.6	1020.0	1030.6	1044.7	1052.8
22.5°	989.3	990.8	1003.4	1015.0	1024.0
25°	946.9	954.5	973.6	987.2	993.8
27.5°	915.1	926.2	939.3	955.5	968.6
30°	889.9	888.9	898.0	921.2	936.3
32.5°	841.0	844.5	854.1	881.9	903.0
35°	791.6	792.1	801.7	838.0	858.7
37.5°	734.6	730.6	736.1	775.5	789.1
40°	656.0	657.0	651.4	679.2	677.2
42.5°	564.2	572.3	543.5	579.8	577.3
45°	452.3	489.1	453.3	485.6	465.9
47.5°	357.0	411.4	381.7	405.4	368.6
50°	289.4	345.4	329.2	339.8	280.3
52.5°	237.5	282.9	287.9	290.4	218.8
55°	190.6	231.9	248.1	247.6	170.9
57.5°	140.7	188.6	207.2	214.8	129.6
60°	103.9	156.8	170.9	187.6	97.3
62.5°	83.7	137.6	141.2	164.4	74.1
65°	71.6	127.1	114.5	146.7	57.5
67.5°	63.5	118.5	93.3	131.1	48.9
70°	57.5	105.4	77.1	117.5	45.9
72.5°	56.0	89.7	59.5	104.9	45.4
75°	54.0	76.1	42.9	86.2	44.9
77.5°	46.4	65.0	30.8	66.6	41.8
80°	40.3	51.9	22.7	49.9	36.8
82.5°	31.3	39.3	20.2	37.8	29.7
85°	20.2	29.7	21.2	27.2	20.7
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)