

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: P292552

Luminaire Tested: **22GR-LD5-20-A19/156-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292552
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-2700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1878.0 lumens
Efficiency: N/A
Efficacy: 121.6 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

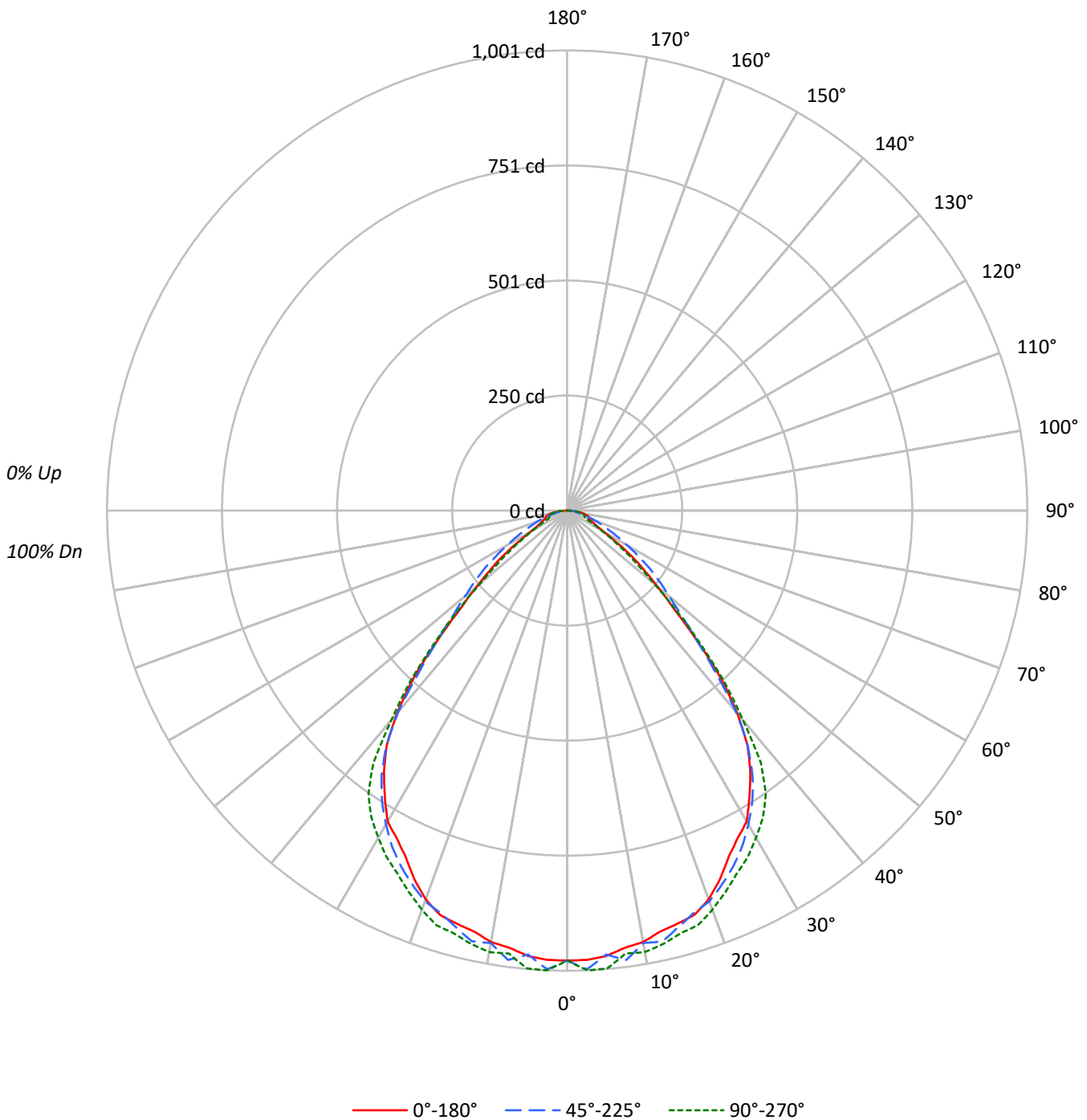
Input Watts (W): 15.438
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					10					0
RW	70	50	30	10	70	50	30	10	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°	2634	2634	2634
5°	2627	2619	2701
10°	2603	2610	2665
15°	2591	2611	2653
20°	2577	2590	2646
25°	2467	2537	2589
30°	2427	2449	2553
35°	2282	2311	2475
40°	2022	2008	2087
45°	1510	1514	1556
50°	1063	1209	1030
55°	785	1021	704
60°	491	807	460
65°	400	639	321
70°	397	533	317
75°	492	391	410
80°	549	308	501
85°	546	574	559



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.2	5.0
10°-20°	265.4	14.1
20°-30°	393.1	20.9
30°-40°	440.3	23.4
40°-50°	323.5	17.2
50°-60°	180.8	9.6
60°-70°	100.8	5.4
70°-80°	59.2	3.2
80°-90°	21.8	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°	751.6	40.0
0°-40°	1191.9	63.5
0°-60°	1696.2	90.3
0°-90°	1878.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1878.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	979	979	979	979	979	
5°	973	991	970	989	1000	92
15°	930	936	937	951	952	263
25°	831	838	854	866	872	385
35°	695	695	704	735	754	430
45°	397	429	398	426	409	310
55°	167	204	218	217	150	149
65°	63	112	100	129	50	65
75°	47	67	38	76	39	48
85°	18	26	19	24	18	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	978.8	978.8	978.8	978.8	978.8
2.5°	978.3	987.2	998.7	1000.0	1000.9
5°	972.6	990.7	969.5	989.4	1000.0
7.5°	959.3	970.4	985.8	965.9	971.7
10°	952.7	955.3	955.3	980.1	975.2
12.5°	937.6	955.3	959.7	954.9	965.5
15°	930.1	935.8	937.2	951.3	952.2
17.5°	921.7	920.4	917.3	927.4	945.6
20°	900.0	895.1	904.4	916.8	923.9
22.5°	868.1	869.5	880.5	890.7	898.7
25°	831.0	837.6	854.4	866.4	872.1
27.5°	803.1	812.8	824.3	838.5	850.0
30°	781.0	780.1	788.1	808.4	821.7
32.5°	738.1	741.2	749.6	773.9	792.5
35°	694.7	695.1	703.5	735.4	753.5
37.5°	644.7	641.2	646.0	680.5	692.5
40°	575.7	576.5	571.7	596.0	594.2
42.5°	495.1	502.2	477.0	508.8	506.6
45°	396.9	429.2	397.8	426.1	408.8
47.5°	313.3	361.1	335.0	355.8	323.5
50°	254.0	303.1	288.9	298.2	246.0
52.5°	208.4	248.2	252.7	254.9	192.0
55°	167.3	203.5	217.7	217.3	150.0
57.5°	123.5	165.5	181.9	188.5	113.7
60°	91.2	137.6	150.0	164.6	85.4
62.5°	73.5	120.8	123.9	144.2	65.0
65°	62.8	111.5	100.4	128.8	50.4
67.5°	55.8	104.0	81.9	115.0	42.9
70°	50.4	92.5	67.7	103.1	40.3
72.5°	49.1	78.8	52.2	92.0	39.8
75°	47.3	66.8	37.6	75.7	39.4
77.5°	40.7	57.1	27.0	58.4	36.7
80°	35.4	45.6	19.9	43.8	32.3
82.5°	27.4	34.5	17.7	33.2	26.1
85°	17.7	26.1	18.6	23.9	18.1
87.5°	8.4	14.6	13.3	12.8	9.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)