

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: P292126

Luminaire Tested: **22GR-LD5-20-A-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292126
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33296)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-20-A-UNV-L83050-W2A1-U-3500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2073.0 lumens
Efficiency: N/A
Efficacy: 134.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

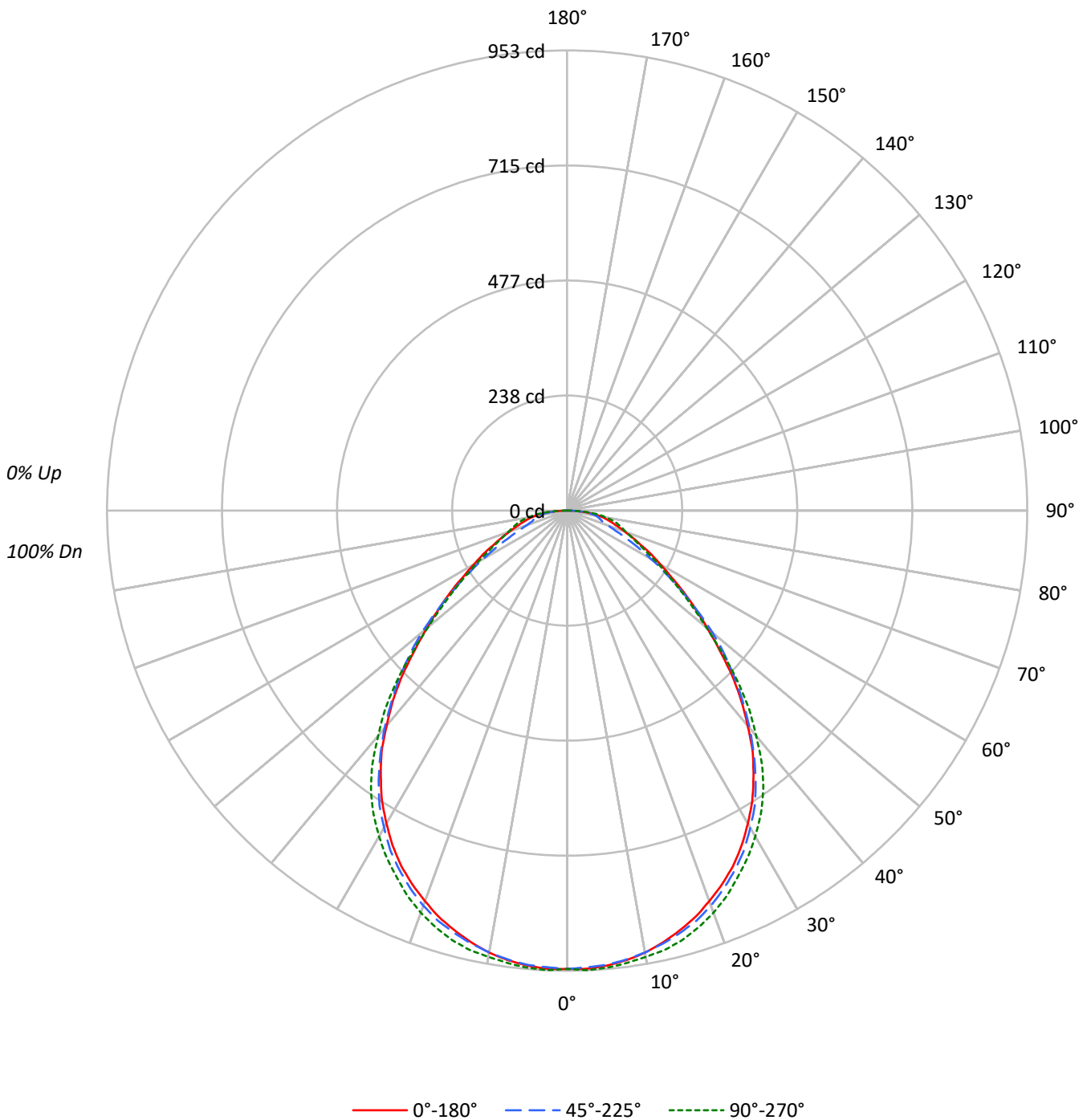
Input Watts (W): 15.438
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74					74			
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56					56			
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49					49			
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44					44			
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39					39			
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36					36			
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32					32			
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30					30			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2555	2555	2555
5°	2555	2551	2567
10°	2540	2539	2564
15°	2508	2521	2566
20°	2464	2493	2538
25°	2412	2439	2484
30°	2325	2356	2421
35°	2211	2236	2326
40°	2044	2066	2139
45°	1836	1869	1898
50°	1587	1644	1571
55°	1385	1349	1331
60°	1200	1080	1153
65°	1072	848	1035
70°	995	702	1021
75°	993	742	1133
80°	1099	934	1278
85°	1145	1013	1445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.8	4.3
10°-20°	255.9	12.3
20°-30°	378.4	18.3
30°-40°	427.0	20.6
40°-50°	376.5	18.2
50°-60°	258.3	12.5
60°-70°	152.4	7.4
70°-80°	95.1	4.6
80°-90°	39.7	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°	724.1	34.9
0°-40°	1151.2	55.5
0°-60°	1785.9	86.1
0°-90°	2073.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2073.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	949	949	949	949	949	
5°	946	944	944	948	950	90
15°	900	901	905	916	921	254
25°	812	815	822	832	836	373
35°	673	679	681	697	708	419
45°	482	485	491	494	499	371
55°	295	288	288	278	284	265
65°	168	148	133	154	163	170
75°	96	86	71	100	109	102
85°	37	35	33	43	47	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	949.4	949.4	949.4	949.4	949.4
2.5°	949.8	947.4	946.5	950.3	952.7
5°	946.0	944.1	944.5	947.9	950.3
7.5°	939.2	937.8	937.8	942.6	945.0
10°	929.6	929.1	929.1	934.9	938.3
12.5°	916.1	916.6	918.5	926.2	932.0
15°	900.2	901.1	905.0	916.1	920.9
17.5°	882.8	882.8	890.5	899.2	905.0
20°	860.6	862.0	870.7	880.4	886.2
22.5°	837.9	840.3	847.6	858.7	864.0
25°	812.4	815.3	821.5	832.1	836.5
27.5°	782.4	786.3	793.1	800.8	809.9
30°	748.2	754.0	758.3	768.9	779.1
32.5°	713.5	718.8	723.6	734.7	746.3
35°	672.9	678.7	680.7	697.1	708.2
37.5°	631.5	633.9	634.8	651.2	663.3
40°	581.8	586.6	588.0	601.1	608.8
42.5°	534.0	535.9	538.8	548.5	557.7
45°	482.4	484.8	491.1	494.0	498.8
47.5°	428.4	435.6	442.8	433.7	434.2
50°	379.2	385.0	392.7	375.3	375.3
52.5°	335.3	338.2	338.6	324.2	327.1
55°	295.2	288.0	287.5	277.9	283.6
57.5°	255.2	245.5	242.2	239.3	246.0
60°	222.9	205.5	200.7	205.0	214.2
62.5°	196.3	174.1	165.0	176.1	184.3
65°	168.4	148.1	133.1	153.9	162.6
67.5°	146.6	127.4	108.1	137.5	143.8
70°	126.4	111.4	89.2	124.9	129.8
72.5°	110.0	98.4	77.2	112.9	118.7
75°	95.5	85.9	71.4	99.9	109.0
77.5°	83.9	73.3	66.6	86.3	97.4
80°	70.9	60.3	60.3	72.4	82.5
82.5°	56.0	47.3	48.7	58.9	66.1
85°	37.1	34.7	32.8	42.9	46.8
87.5°	18.8	19.3	17.4	22.2	22.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)