

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: P292262

Luminaire Tested: **22GR-LD5-20-A-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292262
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-L92765-W2A1-U-4500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1878.0 lumens
Efficiency: N/A
Efficacy: 119.5 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

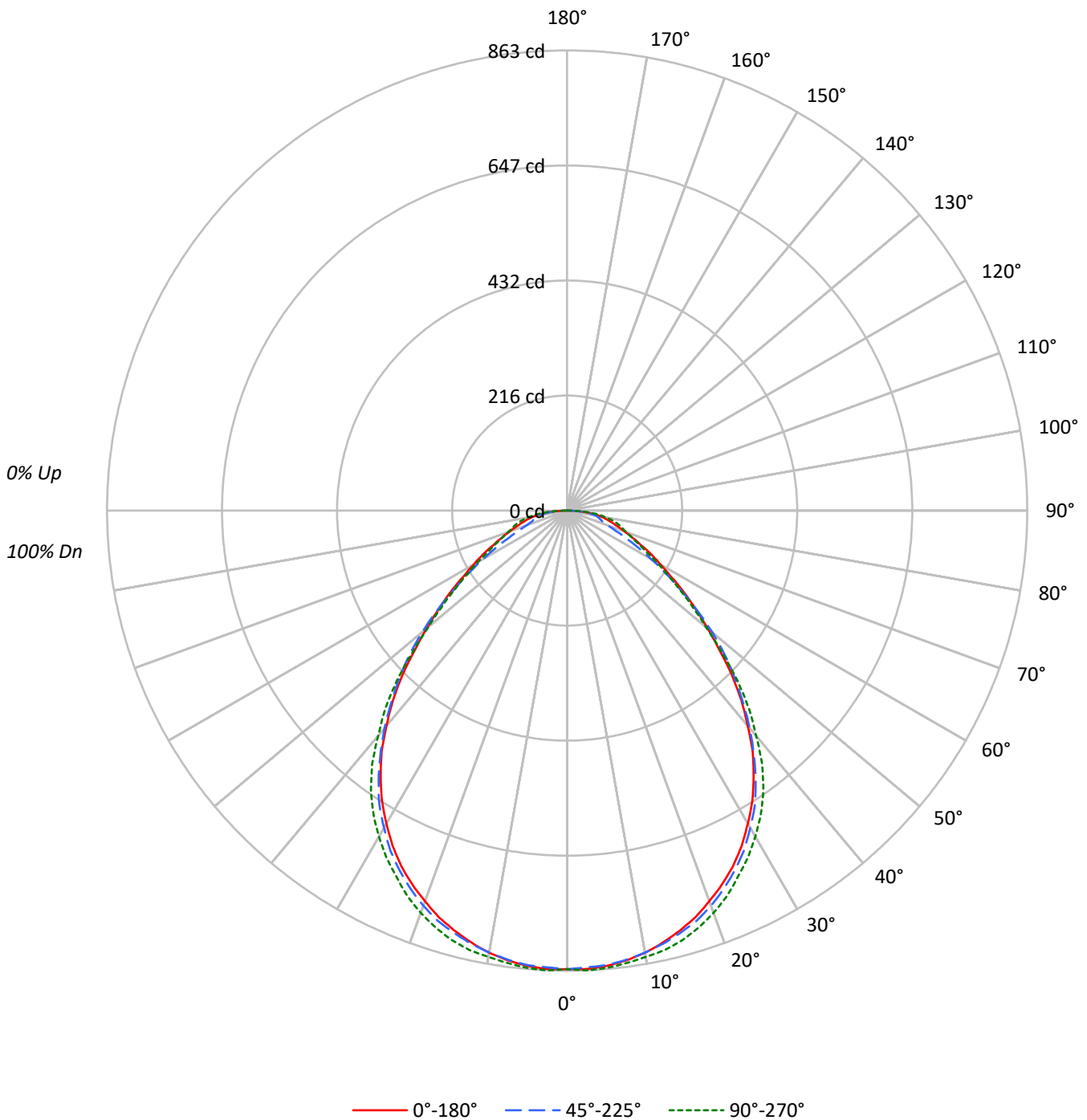
Input Watts (W): 15.717
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2315	2315	2315
5°	2315	2311	2326
10°	2301	2300	2323
15°	2272	2284	2324
20°	2233	2259	2299
25°	2185	2210	2250
30°	2106	2135	2193
35°	2003	2026	2107
40°	1851	1871	1937
45°	1663	1693	1720
50°	1438	1489	1423
55°	1255	1222	1206
60°	1087	978	1044
65°	971	768	938
70°	901	636	925
75°	899	673	1027
80°	995	846	1158
85°	1041	917	1309



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.4	4.3
10°-20°	231.8	12.3
20°-30°	342.8	18.3
30°-40°	386.9	20.6
40°-50°	341.0	18.2
50°-60°	234.0	12.5
60°-70°	138.1	7.4
70°-80°	86.1	4.6
80°-90°	35.9	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°	656.0	34.9
0°-40°	1042.9	55.5
0°-60°	1617.9	86.1
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°	860	860	860	860	860	
5°	857	855	856	859	861	81
15°	816	816	820	830	834	230
25°	736	739	744	754	758	338
35°	610	615	617	632	642	380
45°	437	439	445	448	452	336
55°	268	261	260	252	257	240
65°	152	134	121	139	147	154
75°	86	78	65	90	99	93
85°	34	32	30	39	42	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	860.1	860.1	860.1	860.1	860.1
2.5°	860.5	858.3	857.4	860.9	863.1
5°	857.0	855.2	855.7	858.7	860.9
7.5°	850.9	849.6	849.6	853.9	856.1
10°	842.1	841.7	841.7	846.9	850.0
12.5°	829.9	830.3	832.1	839.1	844.3
15°	815.5	816.4	819.9	829.9	834.3
17.5°	799.7	799.7	806.7	814.6	819.9
20°	779.6	781.0	788.8	797.6	802.8
22.5°	759.1	761.3	767.8	777.9	782.7
25°	735.9	738.6	744.2	753.9	757.8
27.5°	708.8	712.3	718.5	725.5	733.8
30°	677.8	683.1	687.0	696.6	705.8
32.5°	646.4	651.2	655.5	665.6	676.1
35°	609.6	614.9	616.6	631.5	641.5
37.5°	572.1	574.2	575.1	590.0	600.9
40°	527.0	531.4	532.7	544.5	551.5
42.5°	483.8	485.5	488.2	496.9	505.2
45°	437.0	439.2	444.9	447.5	451.9
47.5°	388.1	394.6	401.2	392.9	393.3
50°	343.5	348.7	355.7	340.0	340.0
52.5°	303.7	306.4	306.8	293.7	296.3
55°	267.5	260.9	260.5	251.7	257.0
57.5°	231.2	222.4	219.4	216.8	222.9
60°	201.9	186.2	181.8	185.7	194.0
62.5°	177.9	157.8	149.5	159.5	166.9
65°	152.5	134.2	120.6	139.4	147.3
67.5°	132.9	115.4	97.9	124.6	130.2
70°	114.5	101.0	80.8	113.2	117.6
72.5°	99.6	89.2	69.9	102.3	107.5
75°	86.5	77.8	64.7	90.5	98.8
77.5°	76.0	66.4	60.3	78.2	88.3
80°	64.2	54.6	54.6	65.6	74.7
82.5°	50.7	42.8	44.1	53.3	59.9
85°	33.7	31.5	29.7	38.9	42.4
87.5°	17.0	17.5	15.7	20.1	20.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)