

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: P292679

Luminaire Tested: **22GR-LD5-32-A19/156-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292679
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-LD5-32-A19/156-UNV-L92765-W2A1-U-3500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2715.0 lumens
Efficiency: N/A
Efficacy: 110.2 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

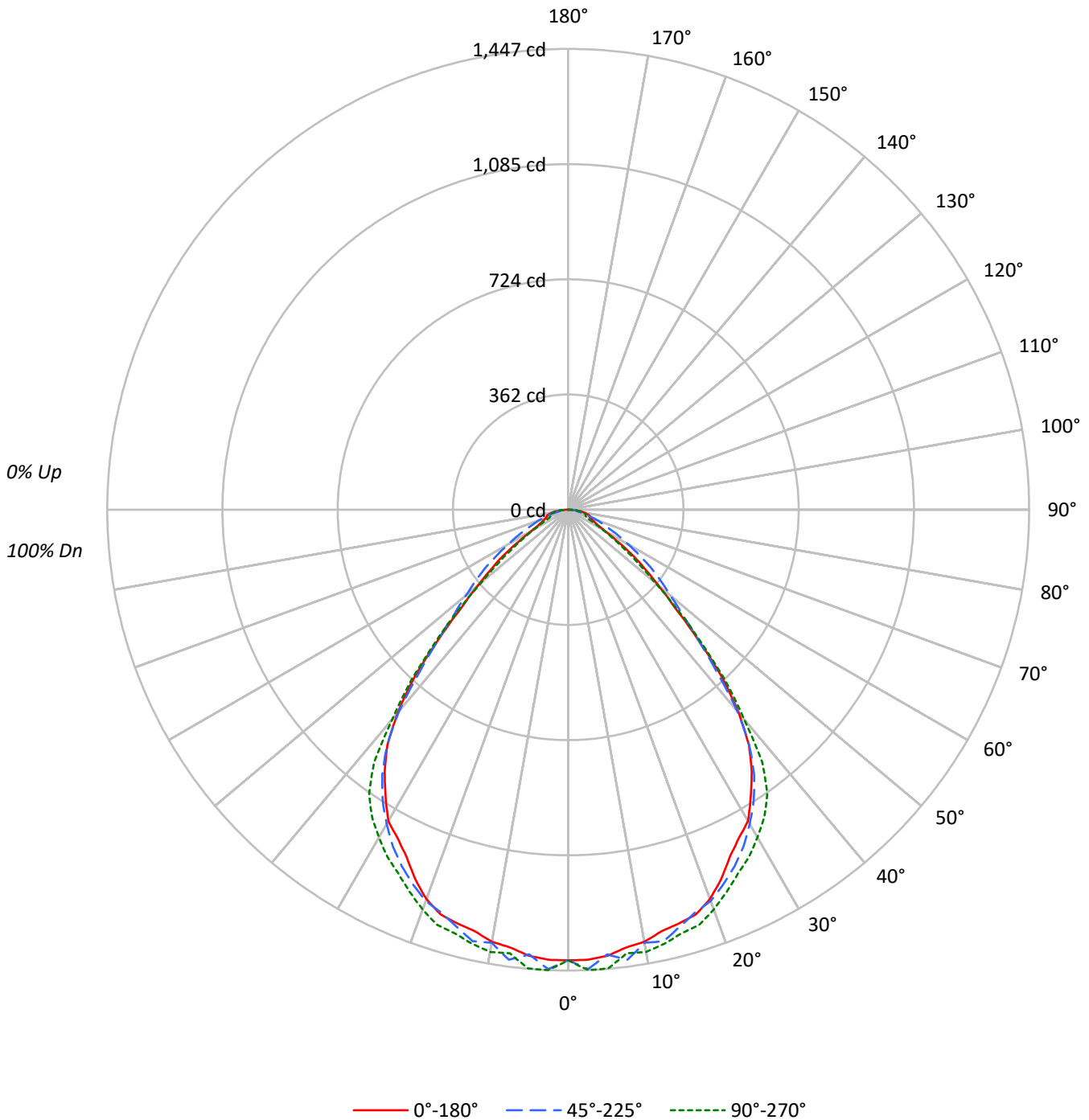
Input Watts (W): 24.645
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3808	3808	3808
5°	3798	3786	3905
10°	3763	3774	3853
15°	3746	3775	3835
20°	3726	3744	3825
25°	3567	3668	3744
30°	3508	3540	3691
35°	3299	3341	3579
40°	2923	2903	3018
45°	2184	2189	2250
50°	1537	1749	1489
55°	1134	1476	1018
60°	709	1167	665
65°	578	925	464
70°	574	770	458
75°	711	566	592
80°	793	446	724
85°	790	831	809



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.7	5.0
10°-20°	383.7	14.1
20°-30°	568.2	20.9
30°-40°	636.5	23.4
40°-50°	467.7	17.2
50°-60°	261.4	9.6
60°-70°	145.7	5.4
70°-80°	85.6	3.2
80°-90°	31.5	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°	1086.6	40.0
0°-40°	1723.1	63.5
0°-60°	2452.2	90.3
0°-90°	2715.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2715.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1415	1415	1415	1415	1415	
5°	1406	1432	1402	1430	1446	133
15°	1345	1353	1355	1375	1377	380
25°	1201	1211	1235	1252	1261	557
35°	1004	1005	1017	1063	1089	622
45°	574	620	575	616	591	448
55°	242	294	315	314	217	216
65°	91	161	145	186	73	94
75°	68	97	54	109	57	69
85°	26	38	27	34	26	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1415.0	1415.0	1415.0	1415.0	1415.0
2.5°	1414.3	1427.1	1443.8	1445.7	1447.0
5°	1406.0	1432.3	1401.5	1430.3	1445.7
7.5°	1386.8	1402.8	1425.2	1396.4	1404.7
10°	1377.2	1381.1	1381.1	1416.9	1409.9
12.5°	1355.5	1381.1	1387.5	1380.4	1395.8
15°	1344.6	1352.9	1354.9	1375.3	1376.6
17.5°	1332.5	1330.5	1326.1	1340.8	1367.0
20°	1301.1	1294.1	1307.5	1325.4	1335.7
22.5°	1255.1	1257.0	1273.0	1287.7	1299.2
25°	1201.3	1210.9	1235.2	1252.5	1260.8
27.5°	1161.0	1175.1	1191.7	1212.2	1228.8
30°	1129.0	1127.8	1139.3	1168.7	1187.9
32.5°	1067.0	1071.5	1083.6	1118.8	1145.7
35°	1004.3	1004.9	1017.1	1063.2	1089.4
37.5°	932.0	926.9	933.9	983.8	1001.1
40°	832.2	833.5	826.5	861.7	859.1
42.5°	715.8	726.0	689.6	735.6	732.4
45°	573.8	620.5	575.1	616.0	591.1
47.5°	452.9	522.0	484.2	514.3	467.6
50°	367.2	438.2	417.7	431.1	355.7
52.5°	301.3	358.9	365.3	368.5	277.6
55°	241.8	294.3	314.7	314.1	216.9
57.5°	178.5	239.2	262.9	272.5	164.4
60°	131.8	198.9	216.9	238.0	123.5
62.5°	106.2	174.6	179.1	208.5	94.0
65°	90.8	161.2	145.2	186.1	72.9
67.5°	80.6	150.3	118.3	166.3	62.0
70°	72.9	133.7	97.9	149.0	58.2
72.5°	71.0	113.9	75.5	133.1	57.6
75°	68.4	96.6	54.4	109.4	56.9
77.5°	58.9	82.5	39.0	84.4	53.1
80°	51.2	65.9	28.8	63.3	46.7
82.5°	39.7	49.9	25.6	48.0	37.7
85°	25.6	37.7	26.9	34.5	26.2
87.5°	12.2	21.1	19.2	18.6	13.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)