

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: P291821

Luminaire Tested: **22GR-LD5-40-F1-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291821
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-23)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-40-F1-UNV-L82765-W2A1-U-6500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4263.0 lumens
Efficiency: N/A
Efficacy: 126.3 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

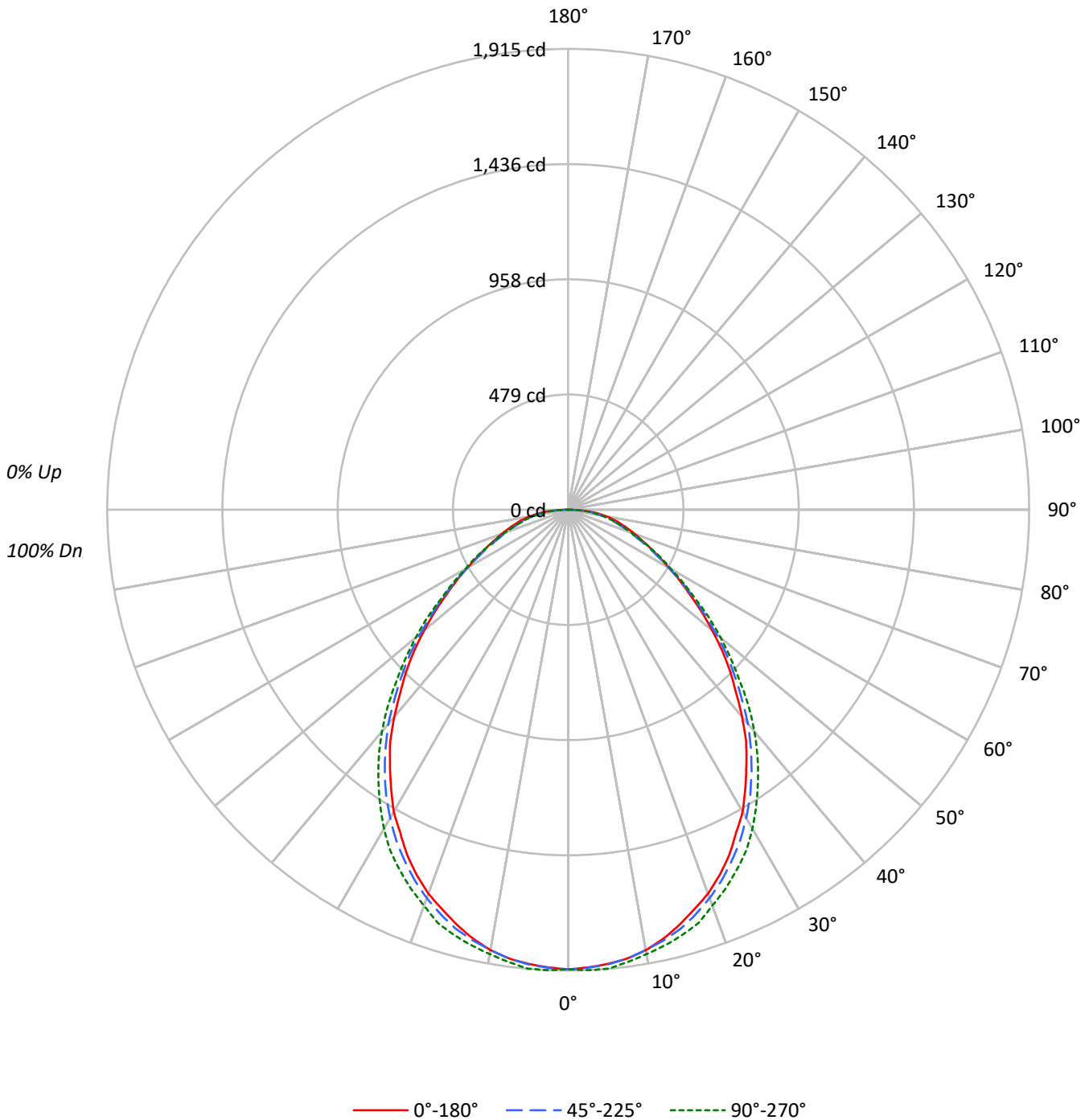
Input Watts (W): 33.759
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	101	93	87	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73					73			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63					63			
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50	48					48			
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	55	49	45	43					43			
7	68	55	47	41	66	54	46	41	53	46	41	51	45	40	50	44	40	38					38			
8	63	51	42	37	62	50	42	37	49	42	37	47	41	36	46	40	36	34					34			
9	59	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	35	30	42	35	30	41	35	30	40	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5141	5141	5141
5°	5118	5123	5171
10°	5078	5076	5124
15°	4976	5025	5098
20°	4862	4918	5013
25°	4701	4777	4910
30°	4503	4594	4755
35°	4239	4362	4516
40°	3945	4079	4227
45°	3622	3726	3842
50°	3267	3349	3455
55°	2899	2967	3018
60°	2598	2603	2656
65°	2394	2313	2394
70°	2311	2142	2203
75°	2352	2097	2138
80°	2534	2201	2201
85°	2813	2328	2297



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.2	4.2
10°-20°	508.3	11.9
20°-30°	741.8	17.4
30°-40°	830.5	19.5
40°-50°	755.9	17.7
50°-60°	568.9	13.3
60°-70°	371.3	8.7
70°-80°	222.7	5.2
80°-90°	83.5	2.0
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°	1430.3	33.6
0°-40°	2260.8	53.0
0°-60°	3585.6	84.1
0°-90°	4263.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4263.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1910	1910	1910	1910	1910	
5°	1895	1892	1897	1904	1914	180
15°	1786	1788	1804	1818	1830	503
25°	1583	1588	1609	1638	1654	727
35°	1290	1302	1328	1359	1375	807
45°	952	962	979	1000	1010	733
55°	618	627	632	641	643	558
65°	376	372	363	369	376	376
75°	226	218	202	203	206	240
85°	91	88	75	72	74	94
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1910.3	1910.3	1910.3	1910.3	1910.3
2.5°	1903.5	1902.5	1905.4	1910.3	1915.2
5°	1894.7	1891.7	1896.6	1903.5	1914.3
7.5°	1881.0	1881.0	1881.0	1893.7	1895.7
10°	1858.4	1860.4	1857.5	1870.2	1875.1
12.5°	1826.1	1827.1	1833.0	1845.7	1854.5
15°	1786.0	1787.9	1803.6	1818.3	1830.1
17.5°	1740.9	1747.8	1762.5	1786.0	1800.7
20°	1697.9	1705.7	1717.4	1742.9	1750.7
22.5°	1643.0	1651.8	1666.5	1689.1	1705.7
25°	1583.3	1588.2	1608.8	1638.1	1653.8
27.5°	1511.8	1522.6	1548.1	1578.4	1599.9
30°	1449.2	1455.0	1478.5	1513.8	1530.4
32.5°	1369.8	1387.5	1407.1	1438.4	1454.1
35°	1290.5	1302.3	1327.7	1359.1	1374.7
37.5°	1214.2	1221.0	1246.5	1272.9	1292.5
40°	1123.1	1135.8	1161.3	1189.7	1203.4
42.5°	1032.0	1050.6	1067.3	1095.7	1110.4
45°	951.7	961.5	979.2	999.7	1009.5
47.5°	867.5	872.4	893.0	905.7	916.5
50°	780.4	786.3	800.0	812.7	825.4
52.5°	700.1	705.0	713.8	725.6	738.3
55°	617.9	626.7	632.5	641.4	643.3
57.5°	551.3	550.3	554.2	561.1	567.9
60°	482.7	484.7	483.7	490.6	493.5
62.5°	425.9	425.0	419.1	428.9	436.7
65°	376.0	372.1	363.3	369.1	376.0
67.5°	330.0	328.0	313.3	318.2	324.1
70°	293.7	286.9	272.2	275.1	280.0
72.5°	258.5	250.7	236.0	237.0	239.9
75°	226.2	218.4	201.7	202.7	205.6
77.5°	195.8	186.0	171.4	169.4	171.4
80°	163.5	154.7	142.0	136.1	142.0
82.5°	130.2	125.3	110.6	104.8	106.7
85°	91.1	88.1	75.4	71.5	74.4
87.5°	42.1	45.0	38.2	35.2	36.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)