

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: P292212

Luminaire Tested: **22GR-LD5-40-A-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292212
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-LD5-40-A-UNV-L82765-W2A1-U-5700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4239.0 lumens
Efficiency: N/A
Efficacy: 127.3 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

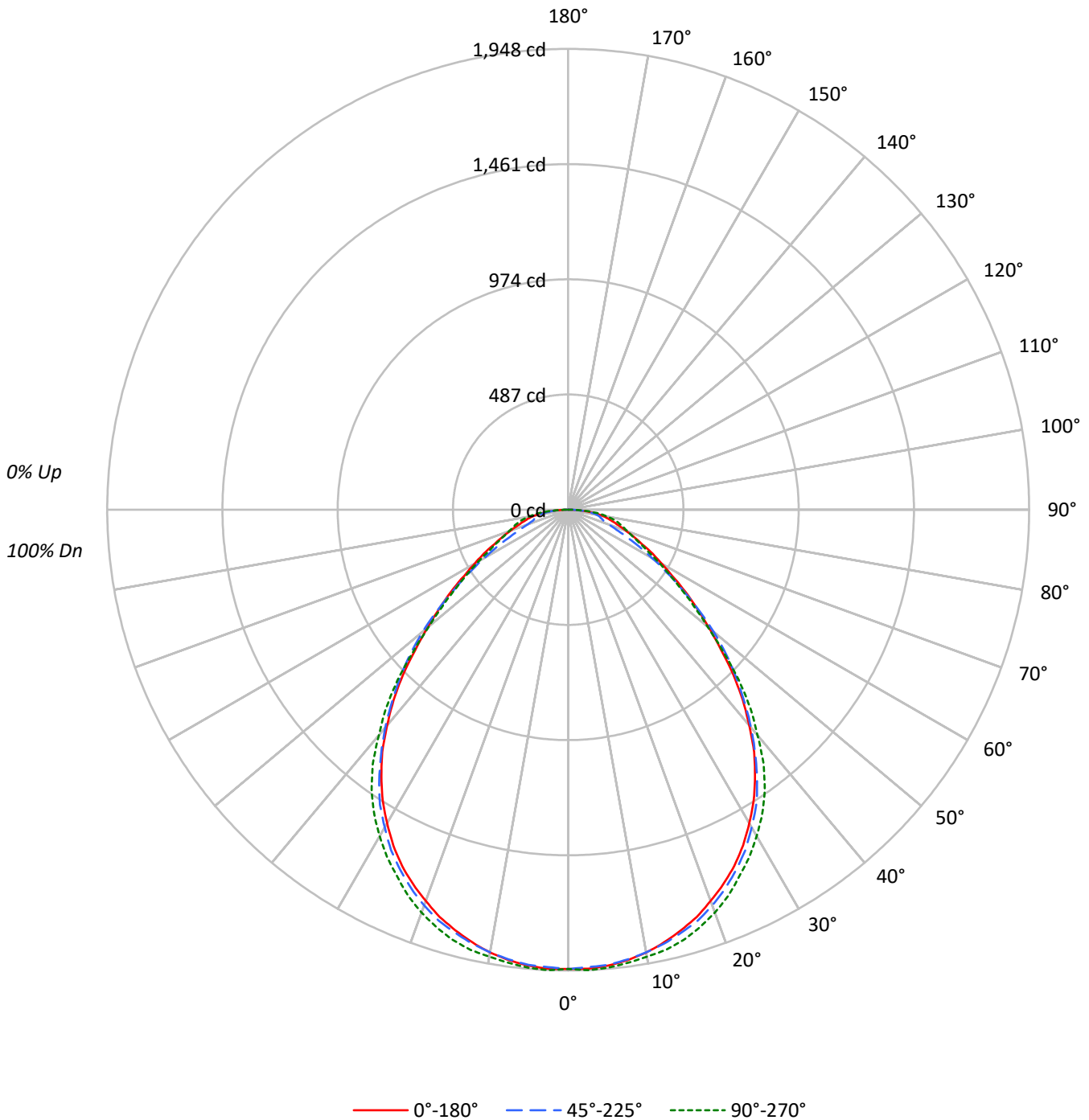
Input Watts (W): 33.294
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5224	5224	5224
5°	5225	5217	5249
10°	5194	5191	5243
15°	5128	5156	5246
20°	5040	5099	5189
25°	4932	4988	5079
30°	4754	4818	4950
35°	4521	4573	4757
40°	4179	4224	4373
45°	3754	3822	3882
50°	3246	3362	3213
55°	2832	2758	2721
60°	2453	2209	2357
65°	2192	1734	2117
70°	2033	1436	2088
75°	2031	1518	2318
80°	2247	1911	2614
85°	2347	2072	2955



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.7	4.3
10°-20°	523.2	12.3
20°-30°	773.8	18.3
30°-40°	873.2	20.6
40°-50°	769.8	18.2
50°-60°	528.1	12.5
60°-70°	311.6	7.4
70°-80°	194.4	4.6
80°-90°	81.1	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°	1480.8	34.9
0°-40°	2354.0	55.5
0°-60°	3651.9	86.1
0°-90°	4239.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4239.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1941	1941	1941	1941	1941	
5°	1934	1930	1931	1938	1943	184
15°	1841	1843	1851	1873	1883	519
25°	1661	1667	1680	1702	1710	763
35°	1376	1388	1392	1425	1448	857
45°	986	991	1004	1010	1020	758
55°	604	589	588	568	580	541
65°	344	303	272	315	332	347
75°	195	176	146	204	223	209
85°	76	71	67	88	96	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1941.3	1941.3	1941.3	1941.3	1941.3
2.5°	1942.3	1937.4	1935.4	1943.3	1948.2
5°	1934.4	1930.5	1931.4	1938.3	1943.3
7.5°	1920.6	1917.6	1917.6	1927.5	1932.4
10°	1900.9	1899.9	1899.9	1911.7	1918.6
12.5°	1873.2	1874.2	1878.2	1894.0	1905.8
15°	1840.7	1842.7	1850.6	1873.2	1883.1
17.5°	1805.2	1805.2	1821.0	1838.7	1850.6
20°	1759.8	1762.8	1780.5	1800.2	1812.1
22.5°	1713.4	1718.4	1733.2	1755.9	1766.7
25°	1661.2	1667.1	1679.9	1701.6	1710.5
27.5°	1600.0	1607.9	1621.7	1637.5	1656.2
30°	1530.0	1541.8	1550.7	1572.4	1593.1
32.5°	1458.9	1469.8	1479.7	1502.3	1526.0
35°	1376.1	1387.9	1391.9	1425.4	1448.1
37.5°	1291.2	1296.2	1298.2	1331.7	1356.4
40°	1189.6	1199.5	1202.5	1229.1	1244.9
42.5°	1092.0	1095.9	1101.9	1121.6	1140.3
45°	986.4	991.4	1004.2	1010.1	1020.0
47.5°	876.0	890.8	905.5	886.8	887.8
50°	775.3	787.2	803.0	767.4	767.4
52.5°	685.6	691.5	692.5	662.9	668.8
55°	603.7	588.9	587.9	568.2	580.0
57.5°	521.8	502.1	495.2	489.3	503.1
60°	455.7	420.2	410.4	419.2	438.0
62.5°	401.5	356.1	337.4	360.0	376.8
65°	344.3	302.8	272.3	314.7	332.4
67.5°	299.9	260.4	221.0	281.1	294.0
70°	258.4	227.9	182.5	255.5	265.4
72.5°	224.9	201.2	157.8	230.8	242.7
75°	195.3	175.6	146.0	204.2	222.9
77.5°	171.6	149.9	136.1	176.6	199.3
80°	145.0	123.3	123.3	148.0	168.7
82.5°	114.4	96.7	99.6	120.3	135.1
85°	76.0	71.0	67.1	87.8	95.7
87.5°	38.5	39.5	35.5	45.4	46.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)