

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: P292453

Luminaire Tested: **22GR-LD5-43-A125-UNV-L93050-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292453  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33297)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-43-A125-UNV-L93050-W2A1-U-5000K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4047.0 lumens  
Efficiency: N/A  
Efficacy: 110.4 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.22 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

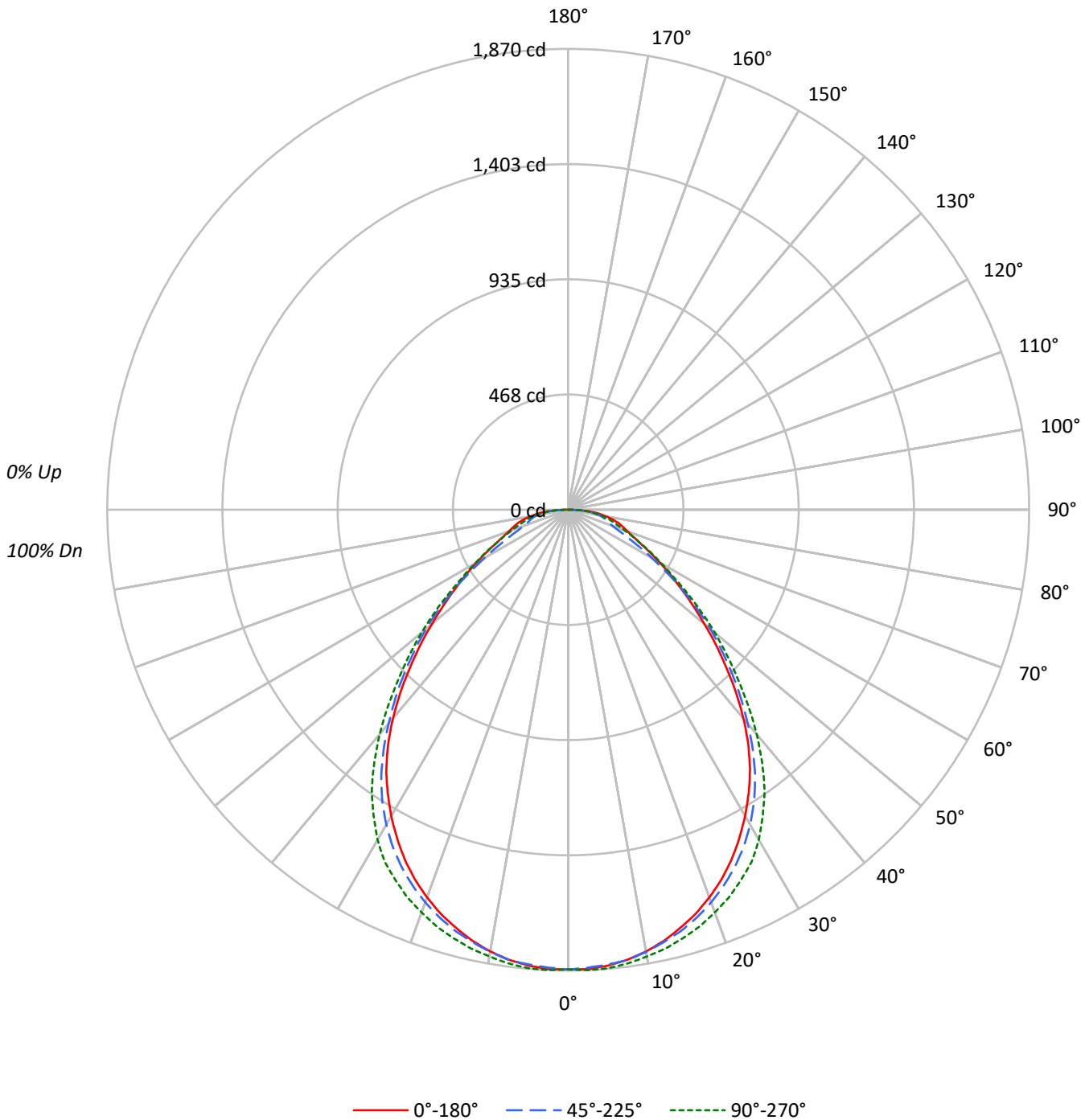
Input Watts (W): 36.642  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86					86			
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74					74			
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56					56			
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49					49			
6	74	61	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	52	46	41	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	34	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	29					29			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	5020	5020	5020
5°	5016	5004	5044
10°	4974	4979	5030
15°	4895	4929	5013
20°	4794	4856	4980
25°	4654	4749	4923
30°	4460	4586	4805
35°	4225	4343	4563
40°	3885	3981	4180
45°	3451	3577	3706
50°	3014	3152	3247
55°	2621	2656	2753
60°	2306	2112	2351
65°	2049	1688	2060
70°	2012	1500	1901
75°	2198	1648	1942
80°	2413	1959	2077
85°	2884	2272	2331



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	176.3	4.4
10°-20°	500.0	12.4
20°-30°	738.1	18.2
30°-40°	825.9	20.4
40°-50°	725.3	17.9
50°-60°	513.2	12.7
60°-70°	298.7	7.4
70°-80°	186.2	4.6
80°-90°	83.3	2.1
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°	1414.4	34.9
0°-40°	2240.3	55.4
0°-60°	3478.8	86.0
0°-90°	4047.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4047.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1866	1866	1866	1866	1866	
5°	1857	1852	1852	1862	1867	176
15°	1757	1761	1769	1788	1799	495
25°	1567	1574	1599	1637	1658	720
35°	1286	1292	1322	1362	1389	800
45°	907	917	940	962	974	701
55°	559	570	566	576	587	505
65°	322	296	265	289	324	326
75°	211	182	158	162	187	221
85°	93	97	74	72	76	95
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1865.5	1865.5	1865.5	1865.5	1865.5
2.5°	1865.5	1861.7	1859.8	1866.4	1870.2
5°	1857.0	1852.3	1852.3	1861.7	1867.4
7.5°	1841.9	1837.2	1842.8	1851.3	1857.0
10°	1820.2	1818.3	1822.1	1833.4	1840.9
12.5°	1791.9	1792.8	1796.6	1814.5	1823.9
15°	1757.0	1760.7	1769.2	1788.1	1799.4
17.5°	1719.2	1722.0	1735.3	1757.0	1773.0
20°	1673.9	1679.6	1695.6	1723.0	1739.0
22.5°	1623.9	1630.5	1650.3	1683.4	1703.2
25°	1567.3	1573.9	1599.4	1637.1	1657.9
27.5°	1503.1	1513.5	1541.8	1583.3	1611.6
30°	1435.2	1443.7	1475.8	1522.9	1546.5
32.5°	1362.5	1372.9	1403.1	1448.4	1469.2
35°	1286.1	1291.8	1322.0	1361.6	1389.0
37.5°	1199.3	1202.1	1230.4	1267.2	1291.8
40°	1105.9	1107.8	1133.2	1168.2	1189.9
42.5°	1008.7	1009.6	1037.0	1063.4	1082.3
45°	906.8	917.2	939.8	962.5	973.8
47.5°	815.3	822.8	843.6	863.4	873.8
50°	720.0	738.8	753.0	763.4	775.6
52.5°	637.9	653.9	657.7	669.9	680.3
55°	558.6	569.9	566.2	576.5	586.9
57.5°	491.6	485.9	473.7	491.6	504.8
60°	428.4	413.3	392.5	417.1	436.9
62.5°	371.8	347.2	321.8	346.3	379.3
65°	321.8	296.3	265.1	288.7	323.6
67.5°	284.0	257.6	220.8	244.4	279.3
70°	255.7	228.3	190.6	210.4	241.6
72.5°	233.1	203.8	170.8	184.0	210.4
75°	211.4	182.1	158.5	162.3	186.8
77.5°	185.9	164.2	145.3	143.4	162.3
80°	155.7	149.1	126.4	123.6	134.0
82.5°	128.3	125.5	103.8	101.0	104.7
85°	93.4	97.2	73.6	71.7	75.5
87.5°	49.1	53.8	38.7	40.6	41.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)