

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: P292029

Luminaire Tested: **22GR-LD5-20-F125-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292029  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33295)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-20-F125-UNV-L93050-W2A1-U-4000K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1909.0 lumens  
Efficiency: N/A  
Efficacy: 120.7 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

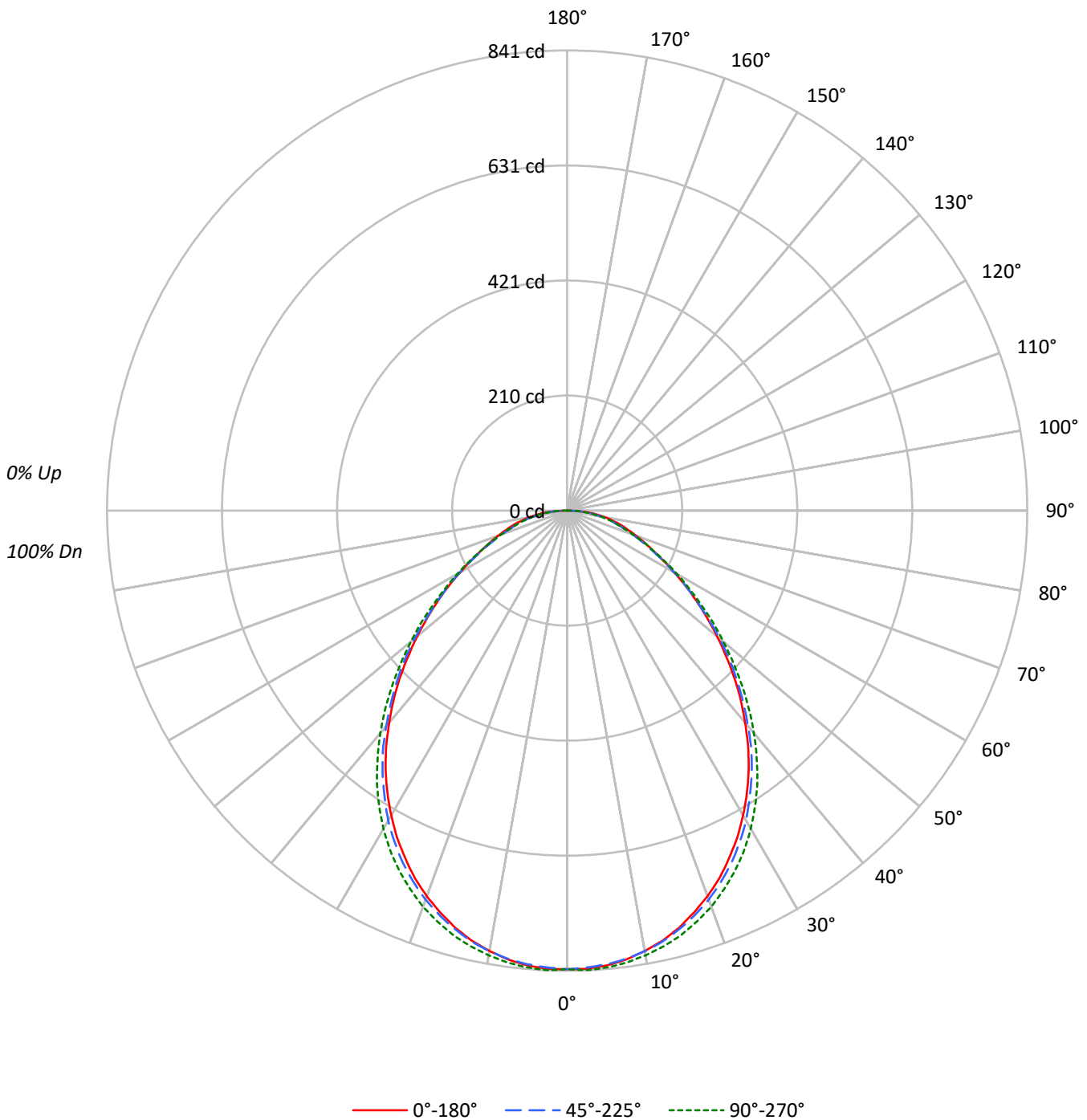
Input Watts (W): 15.81  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73					73			
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62					62			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54					54			
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48					48			
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42					42			
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38					38			
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31					31			
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28					28			

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

	0°	45°	90°
0°	2255	2255	2255
5°	2254	2248	2264
10°	2233	2234	2255
15°	2199	2206	2238
20°	2147	2167	2206
25°	2080	2110	2156
30°	1999	2033	2087
35°	1900	1931	1991
40°	1777	1807	1866
45°	1645	1671	1719
50°	1498	1523	1562
55°	1353	1357	1397
60°	1214	1218	1247
65°	1105	1083	1109
70°	1053	993	1011
75°	1059	958	963
80°	1099	969	961
85°	1204	1025	969



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.2	4.1
10°-20°	223.7	11.7
20°-30°	327.4	17.1
30°-40°	368.1	19.3
40°-50°	339.4	17.8
50°-60°	261.6	13.7
60°-70°	172.6	9.0
70°-80°	100.5	5.3
80°-90°	36.6	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°	630.2	33.0
0°-40°	998.3	52.3
0°-60°	1599.3	83.8
0°-90°	1909.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1909.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	838	838	838	838	838	
5°	834	833	832	836	838	79
15°	789	789	792	799	804	222
25°	701	704	710	720	726	322
35°	578	581	588	600	606	361
45°	432	433	439	448	452	333
55°	288	288	289	294	298	259
65°	174	173	170	171	174	174
75°	102	97	92	90	93	107
85°	39	38	33	31	31	41
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	838.1	838.1	838.1	838.1	838.1
2.5°	838.1	836.3	835.8	838.9	840.7
5°	834.5	832.7	832.3	836.3	838.1
7.5°	827.4	826.1	826.5	831.0	833.2
10°	817.2	816.8	817.7	822.6	825.2
12.5°	805.3	804.8	806.6	811.9	815.5
15°	789.3	789.3	792.0	799.1	803.5
17.5°	770.3	771.6	775.6	782.7	787.6
20°	749.9	751.2	756.6	764.5	770.3
22.5°	727.3	729.1	734.4	744.2	749.0
25°	700.7	704.3	710.5	720.2	726.0
27.5°	673.3	677.3	683.0	695.0	700.3
30°	643.2	645.8	654.2	665.3	671.5
32.5°	611.3	613.9	621.0	634.3	639.6
35°	578.5	581.1	587.8	599.8	606.0
37.5°	543.1	545.3	553.2	562.5	569.2
40°	505.8	508.9	514.3	525.3	531.1
42.5°	469.5	470.9	476.6	487.7	492.1
45°	432.3	432.8	439.0	447.8	451.8
47.5°	393.8	394.7	402.2	407.5	411.5
50°	357.9	358.3	363.7	368.5	373.0
52.5°	322.0	322.0	324.7	330.0	335.8
55°	288.4	287.9	289.2	294.1	297.7
57.5°	256.5	256.0	257.8	260.9	263.6
60°	225.5	224.6	226.3	228.1	231.7
62.5°	198.0	198.9	196.7	199.3	202.0
65°	173.6	172.7	170.1	171.4	174.1
67.5°	152.8	151.5	147.1	147.9	151.0
70°	133.8	131.1	126.2	126.2	128.5
72.5°	116.5	113.8	107.6	108.1	109.0
75°	101.9	97.4	92.1	90.4	92.6
77.5°	85.9	82.4	77.5	76.2	77.1
80°	70.9	68.2	62.5	60.7	62.0
82.5°	56.3	54.0	47.4	46.1	46.5
85°	39.0	38.5	33.2	30.6	31.4
87.5°	20.8	21.3	17.3	15.5	16.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)