

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: P293714

Luminaire Tested: **24GR-LD5-30-A125-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293714  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33307)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-30-A125-UNV-L82765-W2A1-U-4500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3102.0 lumens  
Efficiency: N/A  
Efficacy: 152.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.27  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

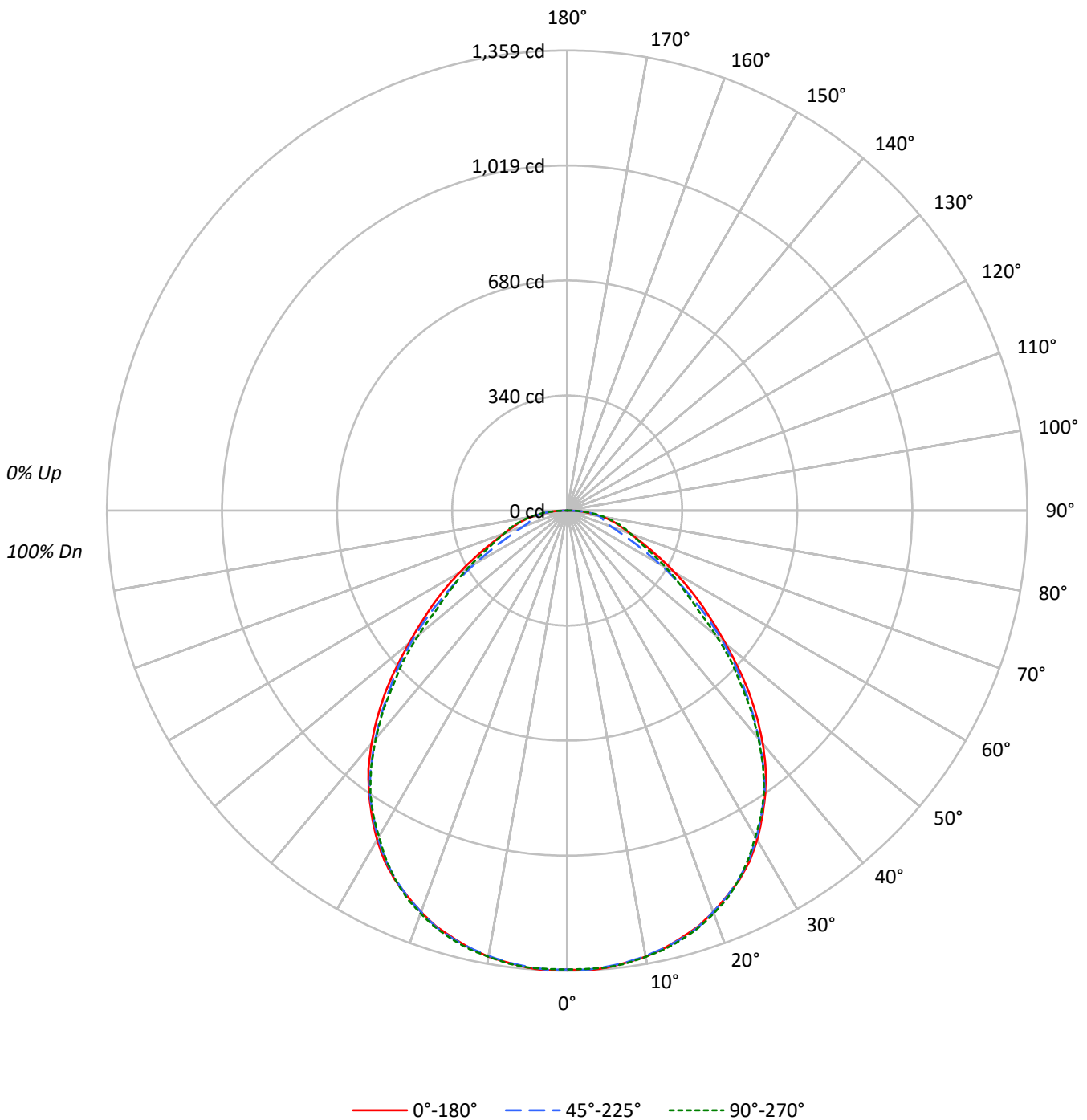
Input Watts (W): 20.367  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	96	99	96	93	95	93	90	91	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74					74			
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64					64			
4	86	75	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43					43			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35					35			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29					29			

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

	0°	45°	90°
0°	1824	1824	1824
5°	1830	1826	1829
10°	1827	1825	1828
15°	1819	1822	1827
20°	1806	1806	1813
25°	1786	1782	1784
30°	1744	1735	1727
35°	1676	1671	1664
40°	1578	1550	1543
45°	1444	1404	1378
50°	1276	1251	1202
55°	1135	1058	1017
60°	988	846	908
65°	854	656	803
70°	779	537	777
75°	785	579	825
80°	817	754	870
85°	852	897	963



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.6	4.1
10°-20°	368.8	11.9
20°-30°	552.0	17.8
30°-40°	630.7	20.3
40°-50°	570.2	18.4
50°-60°	410.3	13.2
60°-70°	237.8	7.7
70°-80°	141.1	4.5
80°-90°	62.5	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°	1049.3	33.8
0°-40°	1680.1	54.2
0°-60°	2660.6	85.8
0°-90°	3102.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3102.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1356	1356	1356	1356	1356	
5°	1355	1353	1352	1350	1354	129
15°	1306	1308	1308	1307	1311	369
25°	1203	1202	1201	1198	1202	553
35°	1020	1015	1017	1005	1013	636
45°	759	746	738	731	724	583
55°	484	475	451	439	434	433
65°	268	238	206	230	252	271
75°	151	126	111	137	159	160
85°	55	60	58	67	62	59
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1355.5	1355.5	1355.5	1355.5	1355.5
2.5°	1359.3	1354.5	1356.9	1355.5	1355.0
5°	1355.0	1353.0	1352.1	1350.1	1354.5
7.5°	1346.3	1344.8	1345.3	1345.8	1348.7
10°	1337.6	1335.1	1335.6	1336.6	1338.0
12.5°	1324.0	1322.6	1323.0	1324.0	1327.4
15°	1305.6	1308.0	1308.0	1306.6	1311.4
17.5°	1287.2	1286.7	1289.2	1284.8	1291.6
20°	1261.6	1262.1	1261.6	1262.1	1266.4
22.5°	1232.5	1235.0	1233.5	1233.5	1238.4
25°	1203.0	1201.6	1200.6	1198.2	1201.6
27.5°	1167.7	1164.8	1162.4	1157.5	1160.0
30°	1122.7	1123.2	1116.9	1112.5	1111.6
32.5°	1072.4	1072.4	1066.6	1063.2	1066.1
35°	1020.1	1015.3	1017.2	1004.6	1013.3
37.5°	963.5	955.7	951.4	947.0	949.9
40°	898.6	888.5	882.2	873.5	878.3
42.5°	830.4	817.8	810.1	803.8	805.7
45°	758.8	745.7	738.0	731.2	724.4
47.5°	683.3	675.1	671.2	662.5	654.7
50°	609.7	606.8	597.6	590.4	574.4
52.5°	542.5	540.1	525.5	513.4	493.1
55°	483.9	474.7	451.0	439.4	433.6
57.5°	424.4	409.4	380.8	379.4	383.3
60°	367.3	348.9	314.5	322.3	337.3
62.5°	315.5	287.9	255.0	273.4	291.3
65°	268.1	238.1	206.2	230.3	252.1
67.5°	228.9	198.9	166.0	198.4	223.6
70°	197.9	167.4	136.5	173.7	197.4
72.5°	172.3	144.7	119.0	154.4	179.1
75°	151.0	126.3	111.3	137.4	158.7
77.5°	129.7	109.9	106.5	122.4	135.5
80°	105.5	96.3	97.3	107.4	112.3
82.5°	78.9	79.4	81.8	90.0	88.1
85°	55.2	59.5	58.1	66.8	62.4
87.5°	30.5	33.4	31.5	38.2	34.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)