

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: P293836

Luminaire Tested: **24GR-LD5-30-A125-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293836  
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-L92765-W2A1-U-2700K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2393.0 lumens  
Efficiency: N/A  
Efficacy: 120.2 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

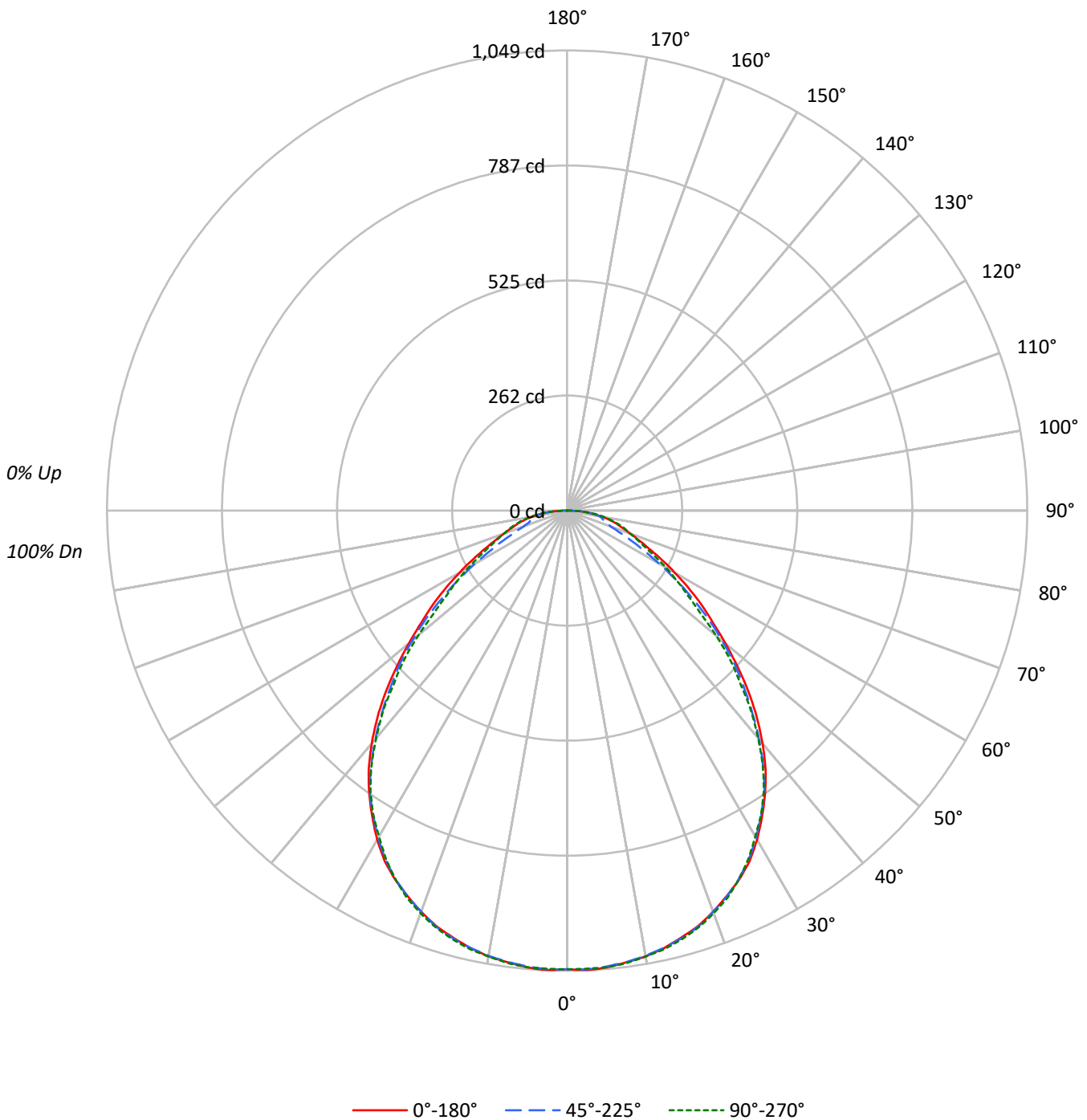
Input Watts (W): 19.902  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	69	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°	1407	1407	1407
5°	1412	1409	1411
10°	1410	1408	1410
15°	1403	1406	1409
20°	1393	1393	1399
25°	1378	1375	1376
30°	1346	1339	1332
35°	1293	1289	1284
40°	1218	1195	1190
45°	1114	1083	1063
50°	985	965	928
55°	876	816	785
60°	762	653	700
65°	658	506	619
70°	601	414	599
75°	606	447	636
80°	631	581	671
85°	658	692	744



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.2	4.1
10°-20°	284.5	11.9
20°-30°	425.8	17.8
30°-40°	486.6	20.3
40°-50°	439.9	18.4
50°-60°	316.5	13.2
60°-70°	183.5	7.7
70°-80°	108.8	4.5
80°-90°	48.2	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°	809.5	33.8
0°-40°	1296.1	54.2
0°-60°	2052.5	85.8
0°-90°	2393.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2393.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1046	1046	1046	1046	1046	
5°	1045	1044	1043	1042	1045	99
15°	1007	1009	1009	1008	1012	284
25°	928	927	926	924	927	427
35°	787	783	785	775	782	491
45°	585	575	569	564	559	450
55°	373	366	348	339	334	334
65°	207	184	159	178	194	209
75°	116	97	86	106	122	123
85°	43	46	45	52	48	46
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1045.7	1045.7	1045.7	1045.7	1045.7
2.5°	1048.6	1044.9	1046.8	1045.7	1045.3
5°	1045.3	1043.8	1043.0	1041.6	1044.9
7.5°	1038.6	1037.4	1037.8	1038.2	1040.4
10°	1031.8	1030.0	1030.4	1031.1	1032.2
12.5°	1021.4	1020.3	1020.6	1021.4	1024.0
15°	1007.2	1009.1	1009.1	1008.0	1011.7
17.5°	993.0	992.6	994.5	991.2	996.4
20°	973.2	973.6	973.2	973.6	977.0
22.5°	950.8	952.7	951.6	951.6	955.3
25°	928.1	926.9	926.2	924.3	926.9
27.5°	900.8	898.6	896.7	893.0	894.8
30°	866.1	866.5	861.6	858.3	857.5
32.5°	827.3	827.3	822.8	820.2	822.4
35°	786.9	783.2	784.7	775.0	781.7
37.5°	743.3	737.3	733.9	730.6	732.8
40°	693.2	685.4	680.6	673.8	677.6
42.5°	640.6	630.9	624.9	620.1	621.6
45°	585.4	575.3	569.3	564.1	558.9
47.5°	527.1	520.8	517.8	511.1	505.1
50°	470.4	468.1	461.0	455.4	443.1
52.5°	418.5	416.6	405.4	396.1	380.4
55°	373.3	366.2	347.9	339.0	334.5
57.5°	327.4	315.8	293.8	292.7	295.7
60°	283.3	269.2	242.7	248.6	260.2
62.5°	243.4	222.1	196.7	210.9	224.7
65°	206.8	183.7	159.0	177.7	194.5
67.5°	176.6	153.4	128.0	153.1	172.5
70°	152.7	129.2	105.3	134.0	152.3
72.5°	132.9	111.6	91.8	119.1	138.1
75°	116.5	97.4	85.9	106.0	122.4
77.5°	100.0	84.7	82.1	94.4	104.5
80°	81.4	74.3	75.0	82.9	86.6
82.5°	60.9	61.2	63.1	69.4	67.9
85°	42.6	45.9	44.8	51.5	48.2
87.5°	23.5	25.8	24.3	29.5	26.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)