

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: P293598

Luminaire Tested: **24GR-LD5-34-A-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293598  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-34-A-UNV-L92765-W2A1-U-5000K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3265.0 lumens  
Efficiency: N/A  
Efficacy: 138.8 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

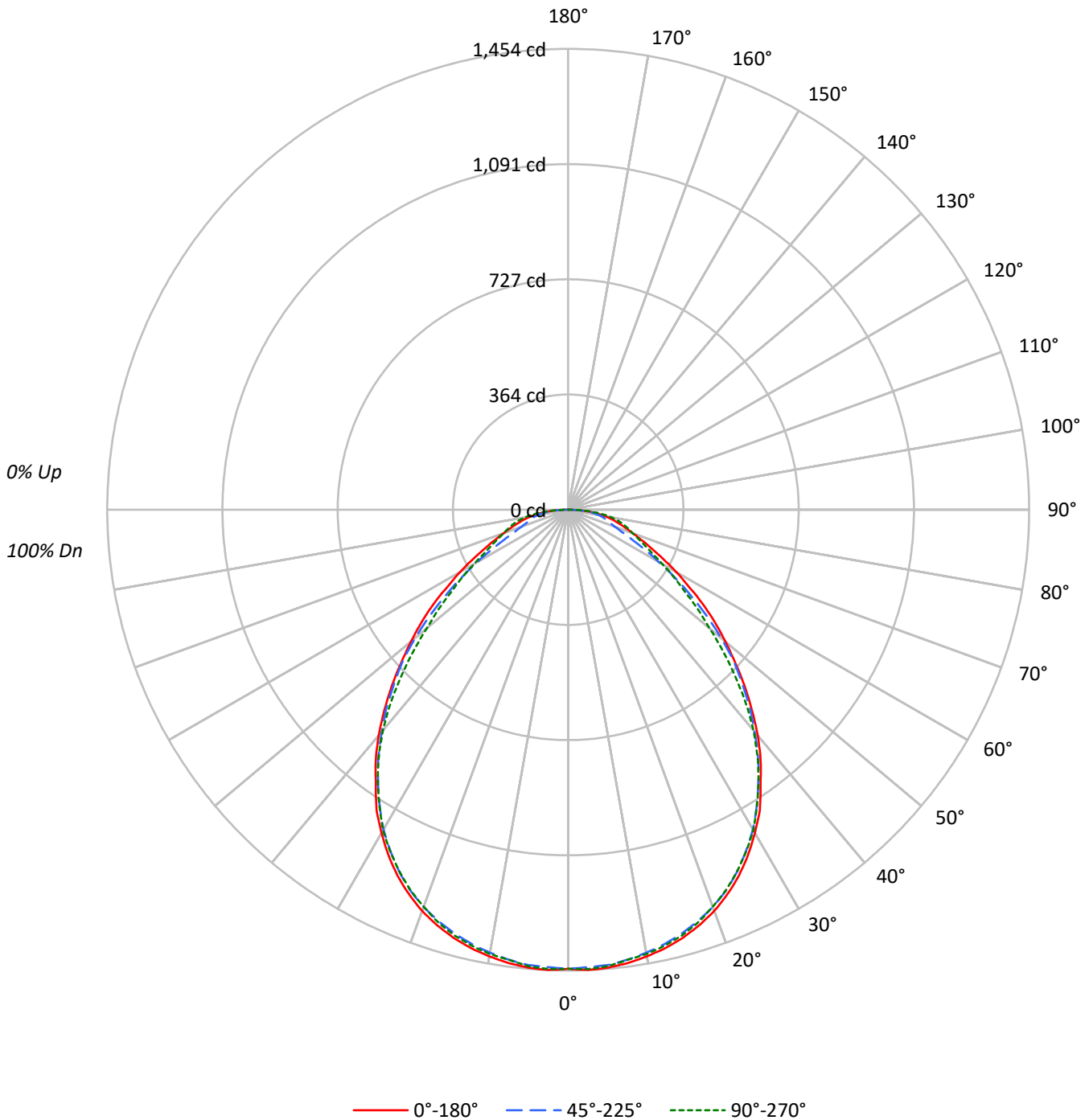
Input Watts (W): 23.529  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	99	96	99	96	93	95	93	90	91	89	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63					63			
4	86	74	66	60	83	73	65	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	46	72	60	52	46	58	51	46	57	50	45	55	49	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°	1949	1949	1949
5°	1959	1948	1952
10°	1955	1939	1945
15°	1948	1928	1936
20°	1929	1910	1909
25°	1892	1871	1870
30°	1829	1810	1814
35°	1737	1717	1720
40°	1634	1605	1596
45°	1497	1477	1419
50°	1353	1317	1217
55°	1215	1106	1050
60°	1064	890	923
65°	928	700	849
70°	849	611	849
75°	849	650	936
80°	922	766	1067
85°	1013	865	1144



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.2	4.2
10°-20°	391.5	12.0
20°-30°	580.5	17.8
30°-40°	654.9	20.1
40°-50°	593.1	18.2
50°-60°	427.9	13.1
60°-70°	255.5	7.8
70°-80°	157.9	4.8
80°-90°	66.5	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°	1109.2	34.0
0°-40°	1764.0	54.0
0°-60°	2785.1	85.3
0°-90°	3265.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3265.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1449	1449	1449	1449	1449	
5°	1450	1448	1442	1441	1446	138
15°	1398	1390	1384	1385	1390	394
25°	1274	1267	1260	1256	1260	585
35°	1058	1056	1046	1046	1047	662
45°	787	782	776	757	746	606
55°	518	502	472	448	447	462
65°	292	257	220	250	267	293
75°	163	142	125	156	180	174
85°	66	58	56	73	74	69
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1448.6	1448.6	1448.6	1448.6	1448.6
2.5°	1453.7	1449.7	1444.6	1447.6	1450.2
5°	1450.2	1448.1	1442.1	1440.6	1445.6
7.5°	1442.6	1437.5	1432.0	1434.5	1432.5
10°	1431.0	1426.4	1419.4	1419.9	1423.4
12.5°	1416.9	1411.3	1403.8	1405.8	1408.8
15°	1398.2	1389.6	1384.1	1384.6	1390.1
17.5°	1374.5	1367.9	1360.9	1362.4	1364.9
20°	1347.3	1343.7	1333.6	1330.6	1333.1
22.5°	1313.0	1306.4	1300.9	1299.3	1299.8
25°	1274.1	1267.1	1260.5	1256.0	1259.5
27.5°	1228.7	1222.7	1214.1	1212.6	1215.6
30°	1177.3	1172.7	1165.2	1163.2	1167.7
32.5°	1124.8	1117.3	1106.7	1106.7	1107.7
35°	1057.7	1056.2	1045.6	1046.1	1047.1
37.5°	997.2	990.1	984.1	978.0	981.1
40°	930.1	922.0	914.0	909.9	908.4
42.5°	858.0	851.9	848.4	833.8	830.2
45°	786.9	781.8	776.3	757.1	745.5
47.5°	714.2	713.2	708.7	674.9	663.3
50°	646.6	645.1	629.0	593.2	581.6
52.5°	582.6	572.5	551.3	516.0	514.0
55°	518.0	501.9	471.6	448.4	447.4
57.5°	449.9	430.8	400.0	387.4	393.9
60°	395.5	366.2	330.9	332.4	343.0
62.5°	339.0	306.2	271.4	286.5	299.1
65°	291.5	256.7	219.9	249.7	266.8
67.5°	250.2	217.9	182.6	222.4	239.1
70°	215.9	189.7	155.4	197.2	215.9
72.5°	188.6	164.4	137.7	177.0	198.7
75°	163.4	141.7	125.1	155.9	180.1
77.5°	141.7	120.6	113.0	137.7	161.4
80°	119.0	99.9	98.9	120.0	137.7
82.5°	92.8	79.7	79.7	100.4	111.0
85°	65.6	57.5	56.0	73.1	74.1
87.5°	33.8	32.3	29.3	38.3	38.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)