

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: P293601

Luminaire Tested: **24GR-LD5-34-A-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293601  
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-6500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3352.0 lumens  
Efficiency: N/A  
Efficacy: 139.2 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

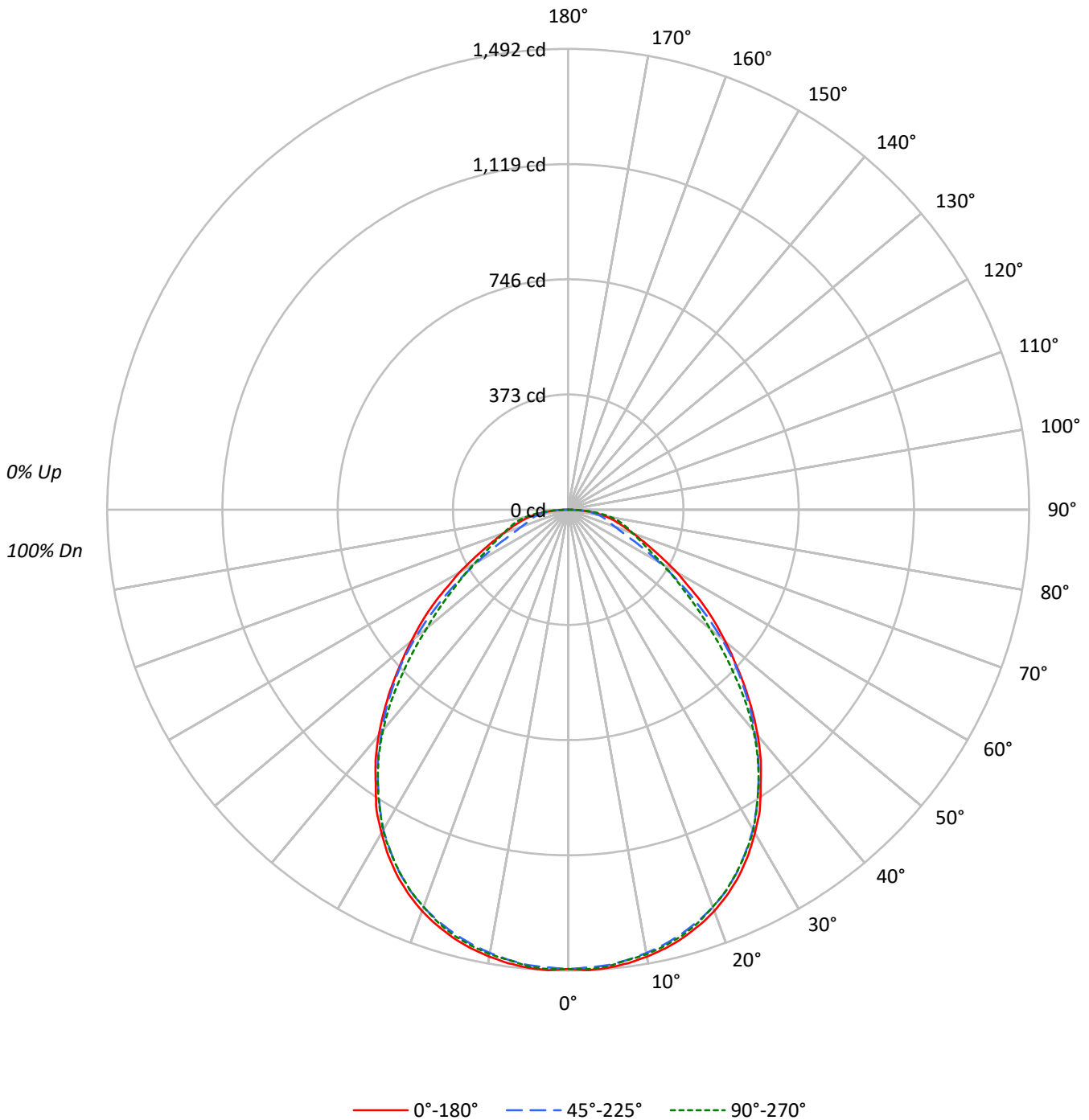
Input Watts (W): 24.087  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2001	2001	2001
5°	2011	2000	2004
10°	2007	1991	1997
15°	2000	1979	1988
20°	1981	1960	1960
25°	1942	1921	1920
30°	1878	1858	1863
35°	1784	1763	1766
40°	1677	1648	1638
45°	1537	1517	1456
50°	1390	1352	1250
55°	1247	1136	1077
60°	1093	914	947
65°	953	719	872
70°	872	627	872
75°	872	667	961
80°	947	786	1096
85°	1039	888	1175



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.8	4.2
10°-20°	401.9	12.0
20°-30°	596.0	17.8
30°-40°	672.3	20.1
40°-50°	608.9	18.2
50°-60°	439.3	13.1
60°-70°	262.3	7.8
70°-80°	162.1	4.8
80°-90°	68.3	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°	1138.7	34.0
0°-40°	1811.0	54.0
0°-60°	2859.3	85.3
0°-90°	3352.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3352.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1487	1487	1487	1487	1487	
5°	1489	1487	1480	1479	1484	141
15°	1436	1427	1421	1422	1427	405
25°	1308	1301	1294	1289	1293	601
35°	1086	1084	1074	1074	1075	679
45°	808	803	797	777	765	623
55°	532	515	484	460	459	475
65°	299	264	226	256	274	301
75°	168	146	128	160	185	179
85°	67	59	58	75	76	70
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1487.2	1487.2	1487.2	1487.2	1487.2
2.5°	1492.4	1488.3	1483.1	1486.2	1488.8
5°	1488.8	1486.7	1480.5	1479.0	1484.1
7.5°	1481.0	1475.9	1470.2	1472.7	1470.7
10°	1469.1	1464.5	1457.2	1457.7	1461.4
12.5°	1454.6	1448.9	1441.2	1443.2	1446.3
15°	1435.5	1426.7	1421.0	1421.5	1427.2
17.5°	1411.1	1404.4	1397.1	1398.7	1401.3
20°	1383.2	1379.5	1369.2	1366.1	1368.7
22.5°	1347.9	1341.2	1335.5	1334.0	1334.5
25°	1308.1	1300.8	1294.1	1289.4	1293.1
27.5°	1261.5	1255.3	1246.4	1244.9	1248.0
30°	1208.6	1204.0	1196.2	1194.1	1198.8
32.5°	1154.8	1147.0	1136.1	1136.1	1137.2
35°	1085.9	1084.4	1073.5	1074.0	1075.0
37.5°	1023.8	1016.5	1010.3	1004.1	1007.2
40°	954.9	946.6	938.3	934.2	932.6
42.5°	880.9	874.6	871.0	856.0	852.4
45°	807.8	802.7	797.0	777.3	765.4
47.5°	733.3	732.2	727.6	692.9	681.0
50°	663.9	662.3	645.7	609.0	597.1
52.5°	598.1	587.8	566.0	529.8	527.7
55°	531.8	515.3	484.2	460.4	459.3
57.5°	461.9	442.2	410.6	397.7	404.4
60°	406.0	376.0	339.7	341.3	352.1
62.5°	348.0	314.3	278.6	294.1	307.1
65°	299.3	263.6	225.8	256.3	273.9
67.5°	256.8	223.7	187.5	228.4	245.5
70°	221.6	194.7	159.5	202.5	221.6
72.5°	193.7	168.8	141.4	181.8	204.0
75°	167.8	145.5	128.4	160.0	184.9
77.5°	145.5	123.8	116.0	141.4	165.7
80°	122.2	102.5	101.5	123.2	141.4
82.5°	95.3	81.8	81.8	103.1	113.9
85°	67.3	59.0	57.5	75.1	76.1
87.5°	34.7	33.1	30.0	39.4	39.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)