

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: P293475

Luminaire Tested: **24GR-LD5-34-A-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293475
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-L82765-W2A1-U-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3692.0 lumens
Efficiency: N/A
Efficacy: 153.9 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

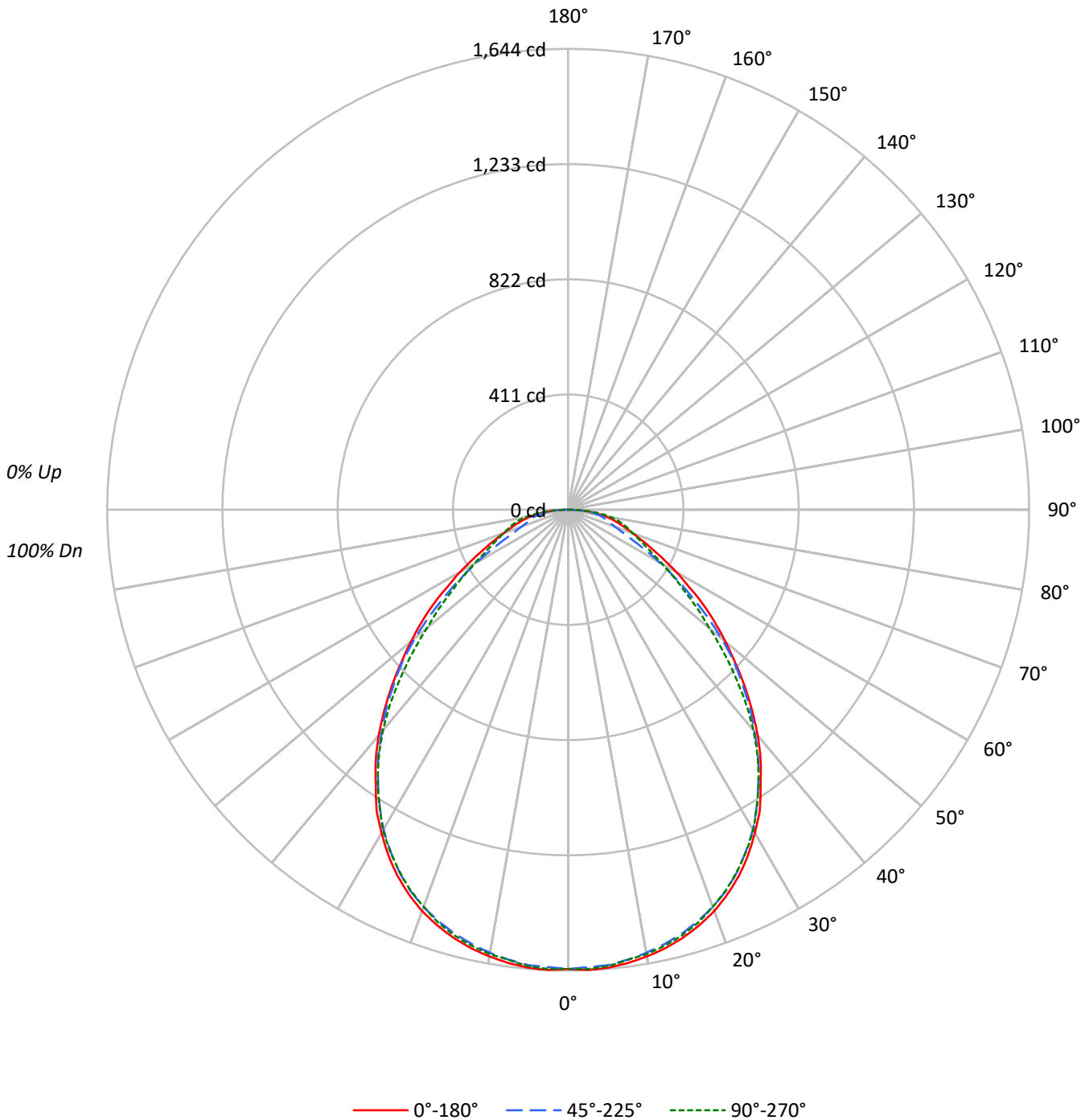
Input Watts (W): 23.994
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2204	2204	2204
5°	2215	2202	2208
10°	2211	2193	2199
15°	2202	2180	2190
20°	2181	2159	2158
25°	2139	2116	2114
30°	2068	2047	2051
35°	1965	1942	1945
40°	1847	1815	1804
45°	1693	1670	1604
50°	1531	1489	1376
55°	1374	1251	1187
60°	1203	1007	1044
65°	1050	792	961
70°	960	691	960
75°	961	736	1058
80°	1043	866	1206
85°	1144	977	1294



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.1	4.2
10°-20°	442.7	12.0
20°-30°	656.4	17.8
30°-40°	740.5	20.1
40°-50°	670.7	18.2
50°-60°	483.9	13.1
60°-70°	288.9	7.8
70°-80°	178.6	4.8
80°-90°	75.2	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°	1254.2	34.0
0°-40°	1994.8	54.0
0°-60°	3149.3	85.3
0°-90°	3692.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3692.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1638	1638	1638	1638	1638	
5°	1640	1638	1631	1629	1635	156
15°	1581	1571	1565	1566	1572	446
25°	1441	1433	1425	1420	1424	662
35°	1196	1194	1182	1183	1184	748
45°	890	884	878	856	843	686
55°	586	568	533	507	506	523
65°	330	290	249	282	302	332
75°	185	160	142	176	204	197
85°	74	65	63	83	84	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1638.1	1638.1	1638.1	1638.1	1638.1
2.5°	1643.8	1639.2	1633.5	1637.0	1639.8
5°	1639.8	1637.5	1630.7	1629.0	1634.7
7.5°	1631.3	1625.5	1619.3	1622.1	1619.8
10°	1618.1	1613.0	1605.0	1605.6	1609.6
12.5°	1602.2	1595.9	1587.3	1589.6	1593.0
15°	1581.1	1571.4	1565.1	1565.7	1571.9
17.5°	1554.3	1546.8	1538.9	1540.6	1543.4
20°	1523.5	1519.5	1508.1	1504.6	1507.5
22.5°	1484.7	1477.3	1471.0	1469.3	1469.8
25°	1440.8	1432.8	1425.4	1420.2	1424.2
27.5°	1389.4	1382.6	1372.9	1371.2	1374.6
30°	1331.2	1326.1	1317.6	1315.3	1320.4
32.5°	1271.9	1263.4	1251.4	1251.4	1252.5
35°	1196.1	1194.4	1182.4	1182.9	1184.1
37.5°	1127.6	1119.6	1112.8	1105.9	1109.4
40°	1051.8	1042.6	1033.5	1028.9	1027.2
42.5°	970.2	963.4	959.4	942.8	938.8
45°	889.8	884.1	877.8	856.1	843.0
47.5°	807.6	806.5	801.4	763.2	750.0
50°	731.2	729.5	711.2	670.8	657.6
52.5°	658.8	647.4	623.4	583.5	581.2
55°	585.8	567.5	533.3	507.1	505.9
57.5°	508.8	487.1	452.3	438.0	445.5
60°	447.2	414.1	374.2	375.9	387.9
62.5°	383.3	346.2	306.9	324.0	338.2
65°	329.7	290.3	248.7	282.3	301.7
67.5°	282.9	246.4	206.5	251.5	270.4
70°	244.1	214.5	175.7	223.0	244.1
72.5°	213.3	185.9	155.7	200.2	224.7
75°	184.8	160.3	141.5	176.2	203.6
77.5°	160.3	136.3	127.8	155.7	182.5
80°	134.6	112.9	111.8	135.7	155.7
82.5°	104.9	90.1	90.1	113.5	125.5
85°	74.1	65.0	63.3	82.7	83.8
87.5°	38.2	36.5	33.1	43.3	43.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)