

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: P293470

Luminaire Tested: **24GR-LD5-34-A-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293470
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-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3526.0 lumens
Efficiency: N/A
Efficacy: 151.7 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

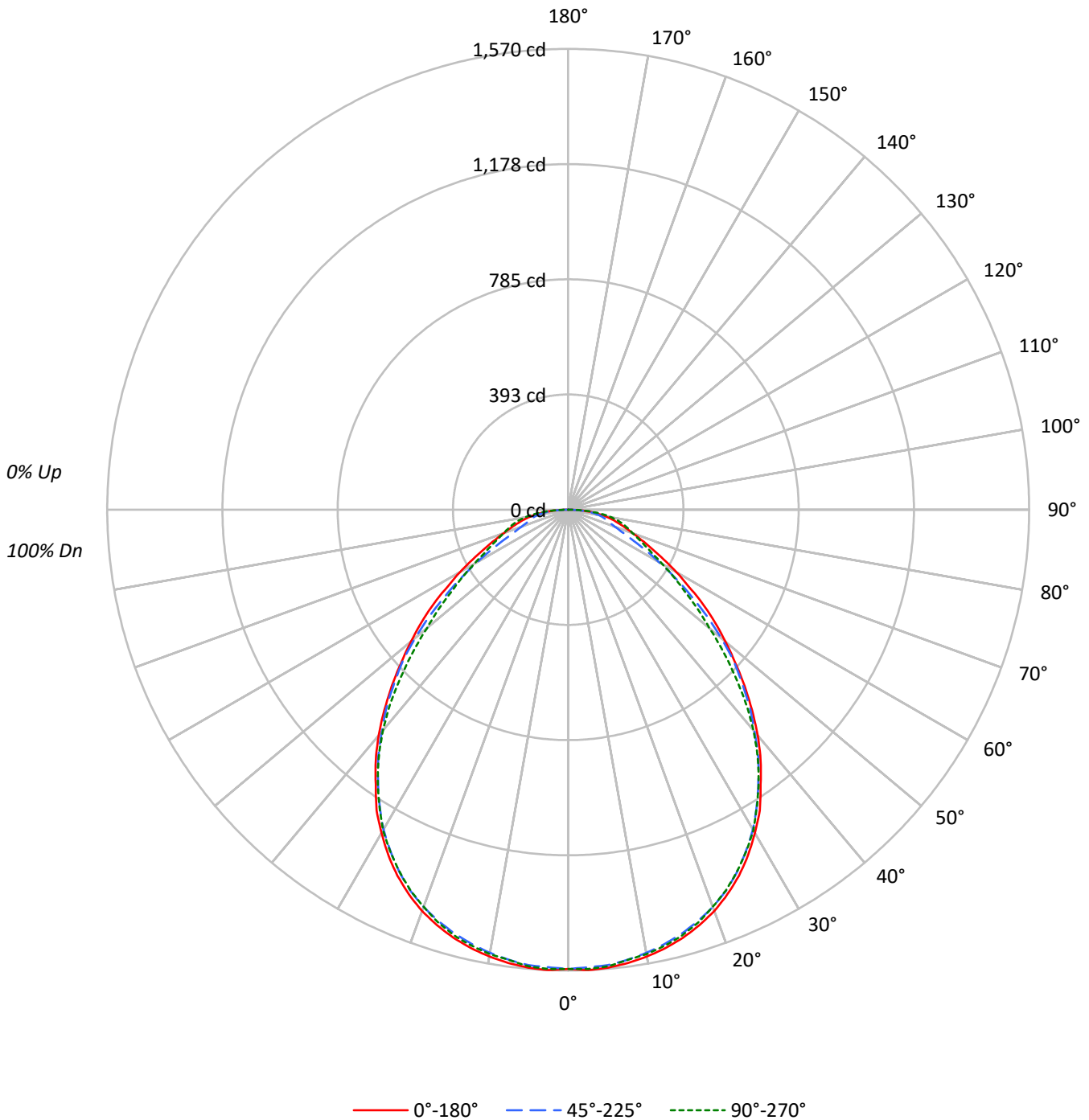
Input Watts (W): 23.25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2105	2105	2105
5°	2115	2103	2109
10°	2111	2094	2100
15°	2103	2082	2091
20°	2083	2062	2061
25°	2043	2021	2019
30°	1975	1955	1959
35°	1876	1855	1857
40°	1764	1734	1723
45°	1617	1595	1532
50°	1462	1422	1315
55°	1312	1195	1133
60°	1149	961	997
65°	1003	756	918
70°	917	660	917
75°	918	702	1011
80°	996	828	1152
85°	1093	934	1237



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.1	4.2
10°-20°	422.8	12.0
20°-30°	626.9	17.8
30°-40°	707.2	20.1
40°-50°	640.5	18.2
50°-60°	462.1	13.1
60°-70°	275.9	7.8
70°-80°	170.5	4.8
80°-90°	71.9	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°	1197.8	34.0
0°-40°	1905.1	54.0
0°-60°	3007.7	85.3
0°-90°	3526.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3526.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1564	1564	1564	1564	1564	
5°	1566	1564	1557	1556	1561	149
15°	1510	1501	1495	1495	1501	426
25°	1376	1368	1361	1356	1360	632
35°	1142	1141	1129	1130	1131	715
45°	850	844	838	818	805	655
55°	559	542	509	484	483	499
65°	315	277	238	270	288	317
75°	176	153	135	168	194	188
85°	71	62	60	79	80	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1564.4	1564.4	1564.4	1564.4	1564.4
2.5°	1569.9	1565.5	1560.1	1563.4	1566.1
5°	1566.1	1563.9	1557.4	1555.7	1561.2
7.5°	1557.9	1552.5	1546.5	1549.2	1547.0
10°	1545.4	1540.5	1532.9	1533.4	1537.2
12.5°	1530.1	1524.1	1516.0	1518.1	1521.4
15°	1510.0	1500.7	1494.7	1495.3	1501.3
17.5°	1484.4	1477.3	1469.7	1471.3	1474.0
20°	1455.0	1451.1	1440.2	1437.0	1439.7
22.5°	1417.9	1410.8	1404.8	1403.2	1403.8
25°	1376.0	1368.3	1361.3	1356.4	1360.2
27.5°	1326.9	1320.4	1311.1	1309.5	1312.8
30°	1271.4	1266.5	1258.3	1256.1	1261.0
32.5°	1214.7	1206.6	1195.1	1195.1	1196.2
35°	1142.3	1140.7	1129.2	1129.8	1130.8
37.5°	1076.9	1069.3	1062.8	1056.2	1059.5
40°	1004.5	995.8	987.0	982.7	981.0
42.5°	926.6	920.0	916.2	900.4	896.6
45°	849.8	844.3	838.3	817.6	805.1
47.5°	771.3	770.2	765.3	728.8	716.3
50°	698.3	696.7	679.3	640.6	628.1
52.5°	629.2	618.3	595.4	557.3	555.1
55°	559.4	542.0	509.3	484.3	483.2
57.5°	485.9	465.2	432.0	418.3	425.4
60°	427.1	395.5	357.3	359.0	370.4
62.5°	366.1	330.6	293.1	309.4	323.0
65°	314.9	277.3	237.5	269.6	288.2
67.5°	270.2	235.3	197.2	240.2	258.2
70°	233.1	204.8	167.8	213.0	233.1
72.5°	203.7	177.6	148.7	191.2	214.6
75°	176.5	153.1	135.1	168.3	194.5
77.5°	153.1	130.2	122.0	148.7	174.3
80°	128.6	107.9	106.8	129.6	148.7
82.5°	100.2	86.1	86.1	108.4	119.8
85°	70.8	62.1	60.5	79.0	80.1
87.5°	36.5	34.9	31.6	41.4	41.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)