

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: P293468

Luminaire Tested: **24GR-LD5-34-A-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293468
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-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3334.0 lumens
Efficiency: N/A
Efficacy: 146.3 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

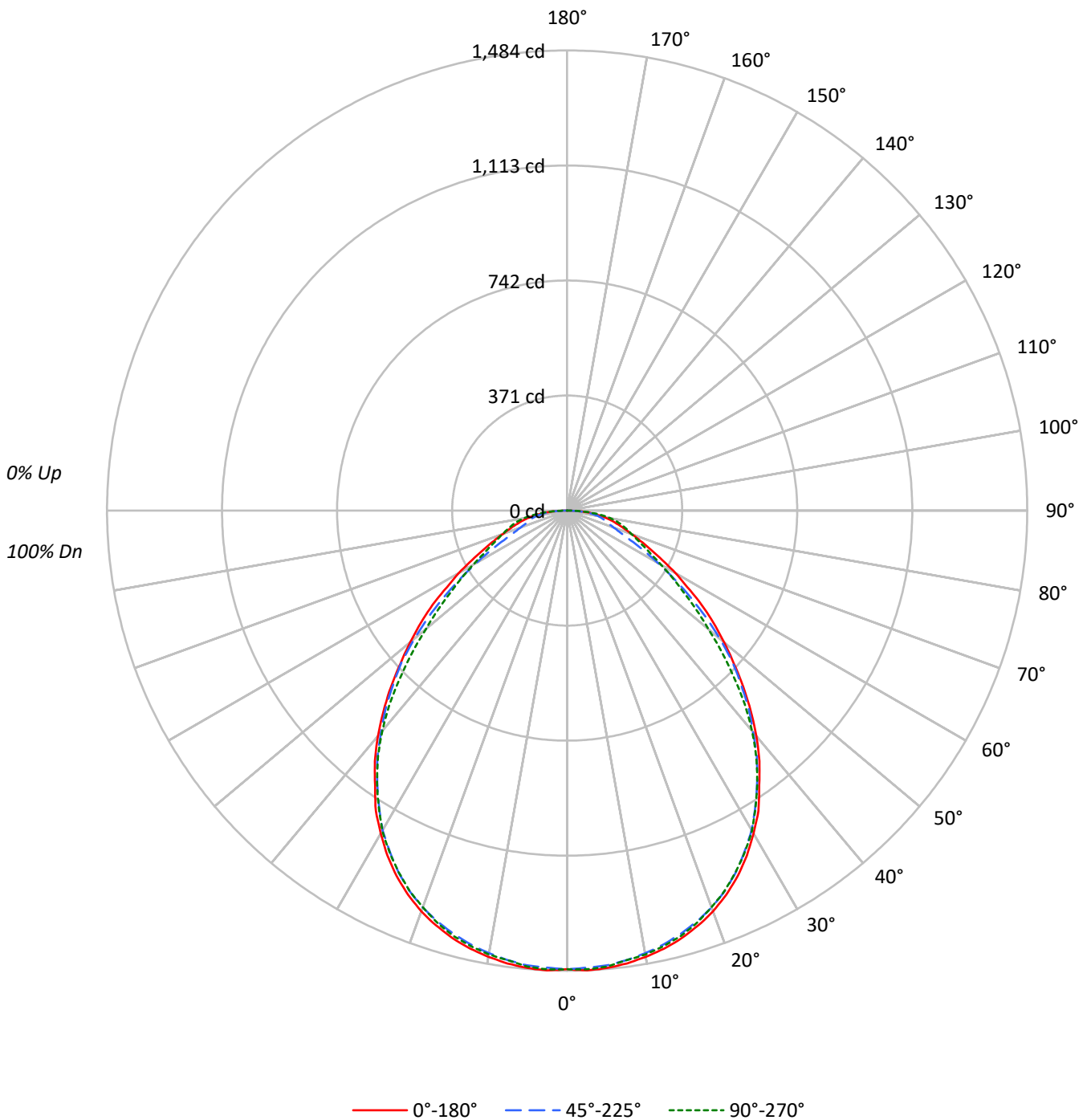
Input Watts (W): 22.785
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1990	1990	1990
5°	2000	1989	1994
10°	1996	1980	1986
15°	1989	1969	1977
20°	1970	1950	1949
25°	1931	1911	1909
30°	1868	1849	1853
35°	1774	1754	1756
40°	1668	1639	1629
45°	1529	1508	1449
50°	1382	1344	1243
55°	1241	1130	1072
60°	1087	909	942
65°	948	715	868
70°	867	624	867
75°	868	664	956
80°	942	783	1089
85°	1034	883	1169



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.1	4.2
10°-20°	399.8	12.0
20°-30°	592.8	17.8
30°-40°	668.7	20.1
40°-50°	605.7	18.2
50°-60°	437.0	13.1
60°-70°	260.9	7.8
70°-80°	161.2	4.8
80°-90°	67.9	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°	1132.6	34.0
0°-40°	1801.3	54.0
0°-60°	2843.9	85.3
0°-90°	3334.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3334.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1479	1479	1479	1479	1479	
5°	1481	1479	1473	1471	1476	141
15°	1428	1419	1413	1414	1420	402
25°	1301	1294	1287	1282	1286	598
35°	1080	1078	1068	1068	1069	676
45°	804	798	793	773	761	619
55°	529	512	482	458	457	472
65°	298	262	225	255	272	299
75°	167	145	128	159	184	178
85°	67	59	57	75	76	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1479.3	1479.3	1479.3	1479.3	1479.3
2.5°	1484.4	1480.3	1475.1	1478.2	1480.8
5°	1480.8	1478.7	1472.6	1471.0	1476.2
7.5°	1473.1	1467.9	1462.3	1464.8	1462.8
10°	1461.2	1456.6	1449.4	1449.9	1453.5
12.5°	1446.8	1441.1	1433.4	1435.5	1438.6
15°	1427.8	1419.0	1413.3	1413.8	1419.5
17.5°	1403.5	1396.8	1389.6	1391.2	1393.8
20°	1375.7	1372.1	1361.8	1358.7	1361.3
22.5°	1340.7	1334.0	1328.3	1326.8	1327.3
25°	1301.0	1293.8	1287.1	1282.5	1286.1
27.5°	1254.7	1248.5	1239.8	1238.2	1241.3
30°	1202.2	1197.5	1189.8	1187.7	1192.4
32.5°	1148.6	1140.9	1130.0	1130.0	1131.1
35°	1080.1	1078.5	1067.7	1068.2	1069.3
37.5°	1018.3	1011.1	1004.9	998.7	1001.8
40°	949.8	941.5	933.3	929.2	927.6
42.5°	876.1	869.9	866.3	851.4	847.8
45°	803.5	798.3	792.7	773.1	761.3
47.5°	729.3	728.3	723.7	689.2	677.3
50°	660.3	658.8	642.3	605.7	593.9
52.5°	594.9	584.6	563.0	526.9	524.8
55°	529.0	512.5	481.6	457.9	456.9
57.5°	459.4	439.9	408.4	395.6	402.3
60°	403.8	373.9	337.9	339.4	350.2
62.5°	346.1	312.6	277.1	292.6	305.4
65°	297.7	262.2	224.6	255.0	272.5
67.5°	255.5	222.5	186.5	227.1	244.1
70°	220.4	193.7	158.6	201.4	220.4
72.5°	192.6	167.9	140.6	180.8	202.9
75°	166.9	144.7	127.7	159.2	183.9
77.5°	144.7	123.1	115.4	140.6	164.8
80°	121.6	102.0	101.0	122.6	140.6
82.5°	94.8	81.4	81.4	102.5	113.3
85°	67.0	58.7	57.2	74.7	75.7
87.5°	34.5	33.0	29.9	39.1	39.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)