

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: P293638

Luminaire Tested: **24GR-LD5-64-A-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293638
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-LD5-64-A-UNV-L92765-W2A1-U-2700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5073.0 lumens
Efficiency: N/A
Efficacy: 110.6 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

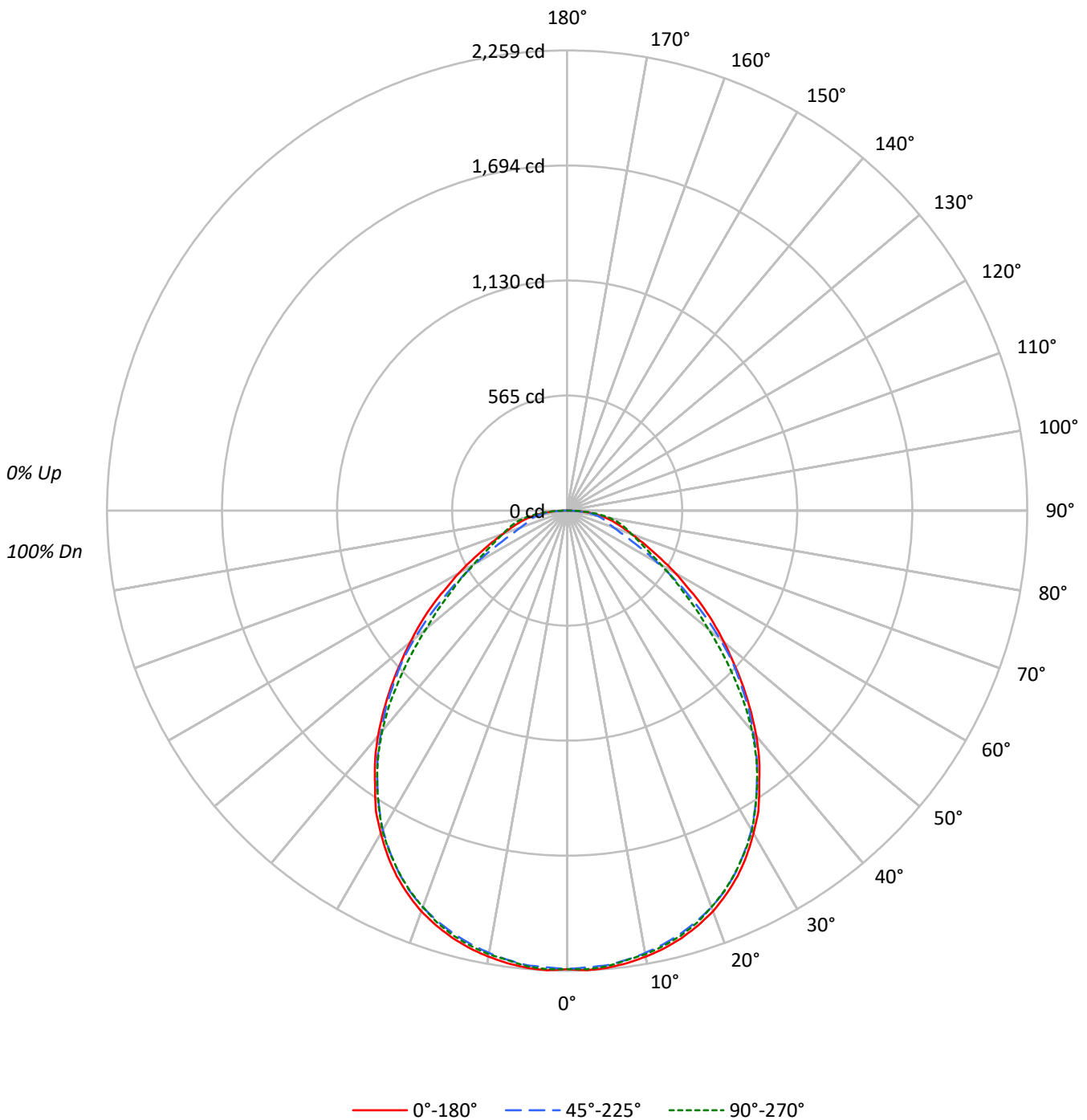
Input Watts (W): 45.849
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3028	3028	3028
5°	3043	3026	3034
10°	3038	3013	3022
15°	3026	2996	3009
20°	2997	2967	2966
25°	2939	2908	2905
30°	2842	2813	2819
35°	2700	2668	2672
40°	2538	2494	2479
45°	2326	2295	2204
50°	2103	2046	1891
55°	1888	1719	1631
60°	1653	1383	1434
65°	1442	1088	1320
70°	1319	950	1319
75°	1320	1011	1455
80°	1433	1190	1658
85°	1573	1343	1778



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.1	4.2
10°-20°	608.3	12.0
20°-30°	902.0	17.8
30°-40°	1017.5	20.1
40°-50°	921.6	18.2
50°-60°	664.9	13.1
60°-70°	397.0	7.8
70°-80°	245.4	4.8
80°-90°	103.4	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°	1723.4	34.0
0°-40°	2740.9	54.0
0°-60°	4327.3	85.3
0°-90°	5073.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5073.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2251	2251	2251	2251	2251	
5°	2253	2250	2241	2238	2246	214
15°	2172	2159	2150	2151	2160	612
25°	1980	1969	1958	1952	1957	909
35°	1644	1641	1625	1625	1627	1028
45°	1223	1215	1206	1176	1158	942
55°	805	780	733	697	695	719
65°	453	399	342	388	415	456
75°	254	220	194	242	280	271
85°	102	89	87	114	115	106
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2250.8	2250.8	2250.8	2250.8	2250.8
2.5°	2258.7	2252.4	2244.6	2249.3	2253.2
5°	2253.2	2250.0	2240.6	2238.3	2246.1
7.5°	2241.4	2233.6	2225.0	2228.9	2225.8
10°	2223.4	2216.3	2205.4	2206.2	2211.6
12.5°	2201.5	2192.8	2181.1	2184.2	2188.9
15°	2172.5	2159.1	2150.5	2151.3	2159.9
17.5°	2135.6	2125.4	2114.5	2116.8	2120.7
20°	2093.3	2087.8	2072.1	2067.4	2071.4
22.5°	2040.0	2029.8	2021.2	2018.9	2019.6
25°	1979.7	1968.7	1958.5	1951.5	1956.9
27.5°	1909.1	1899.7	1886.4	1884.1	1888.8
30°	1829.2	1822.1	1810.4	1807.2	1814.3
32.5°	1747.7	1735.9	1719.5	1719.5	1721.0
35°	1643.5	1641.1	1624.6	1625.4	1627.0
37.5°	1549.4	1538.4	1529.0	1519.6	1524.3
40°	1445.2	1432.6	1420.1	1413.8	1411.5
42.5°	1333.1	1323.7	1318.2	1295.5	1290.0
45°	1222.6	1214.8	1206.1	1176.4	1158.3
47.5°	1109.7	1108.2	1101.1	1048.6	1030.6
50°	1004.7	1002.4	977.3	921.6	903.6
52.5°	905.2	889.5	856.6	801.7	798.6
55°	804.9	779.8	732.8	696.7	695.2
57.5°	699.1	669.3	621.5	601.9	612.1
60°	614.4	569.0	514.1	516.5	532.9
62.5°	526.7	475.7	421.6	445.2	464.7
65°	453.0	398.9	341.7	387.9	414.6
67.5°	388.7	338.6	283.7	345.6	371.5
70°	335.4	294.7	241.4	306.4	335.4
72.5°	293.1	255.5	214.0	275.1	308.8
75°	253.9	220.2	194.4	242.2	279.8
77.5°	220.2	187.3	175.6	214.0	250.8
80°	185.0	155.2	153.6	186.5	214.0
82.5°	144.2	123.8	123.8	156.0	172.4
85°	101.9	89.3	87.0	113.6	115.2
87.5°	52.5	50.2	45.5	59.6	59.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)