

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: P293663

Luminaire Tested: **24GR-LD5-85-A-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293663
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-LD5-85-A-UNV-L92765-W2A1-U-5700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7906.0 lumens
Efficiency: N/A
Efficacy: 123.0 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

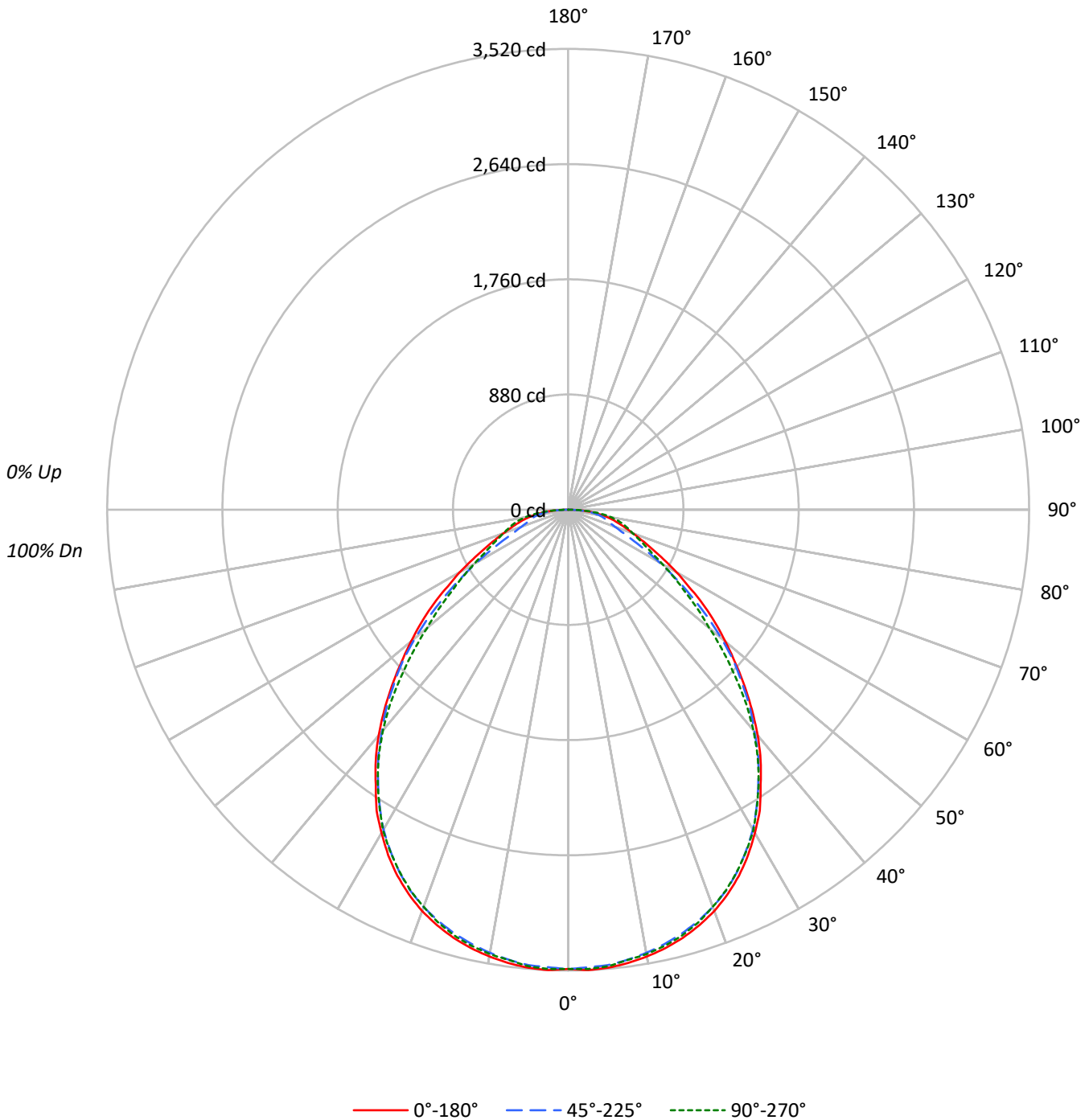
Input Watts (W): 64.263
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4720	4720	4720
5°	4743	4716	4728
10°	4734	4696	4709
15°	4716	4668	4689
20°	4671	4624	4622
25°	4580	4531	4528
30°	4429	4383	4393
35°	4207	4159	4165
40°	3956	3887	3864
45°	3626	3577	3435
50°	3278	3188	2948
55°	2943	2679	2541
60°	2577	2156	2235
65°	2248	1695	2057
70°	2057	1480	2057
75°	2057	1575	2267
80°	2233	1855	2583
85°	2452	2093	2771



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.2	4.2
10°-20°	948.0	12.0
20°-30°	1405.6	17.8
30°-40°	1585.7	20.1
40°-50°	1436.2	18.2
50°-60°	1036.2	13.1
60°-70°	618.7	7.8
70°-80°	382.4	4.8
80°-90°	161.1	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°	2685.8	34.0
0°-40°	4271.5	54.0
0°-60°	6743.9	85.3
0°-90°	7906.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7906.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3508	3508	3508	3508	3508	
5°	3512	3507	3492	3488	3500	334
15°	3386	3365	3352	3353	3366	954
25°	3085	3068	3052	3041	3050	1417
35°	2561	2558	2532	2533	2536	1603
45°	1905	1893	1880	1833	1805	1468
55°	1254	1215	1142	1086	1083	1120
65°	706	622	532	605	646	710
75°	396	343	303	377	436	423
85°	159	139	136	177	180	166
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3507.8	3507.8	3507.8	3507.8	3507.8
2.5°	3520.0	3510.2	3498.0	3505.4	3511.5
5°	3511.5	3506.6	3491.9	3488.3	3500.5
7.5°	3493.1	3480.9	3467.5	3473.6	3468.7
10°	3465.1	3454.1	3437.0	3438.2	3446.7
12.5°	3430.9	3417.4	3399.1	3404.0	3411.3
15°	3385.7	3364.9	3351.5	3352.7	3366.1
17.5°	3328.3	3312.4	3295.3	3298.9	3305.1
20°	3262.3	3253.8	3229.3	3222.0	3228.1
22.5°	3179.2	3163.4	3149.9	3146.3	3147.5
25°	3085.2	3068.1	3052.2	3041.2	3049.8
27.5°	2975.3	2960.6	2939.9	2936.2	2943.5
30°	2850.7	2839.7	2821.4	2816.5	2827.5
32.5°	2723.7	2705.4	2679.7	2679.7	2682.1
35°	2561.2	2557.6	2531.9	2533.1	2535.6
37.5°	2414.7	2397.6	2382.9	2368.3	2375.6
40°	2252.2	2232.7	2213.1	2203.4	2199.7
42.5°	2077.6	2062.9	2054.4	2018.9	2010.4
45°	1905.4	1893.1	1879.7	1833.3	1805.2
47.5°	1729.5	1727.0	1716.0	1634.2	1606.1
50°	1565.8	1562.1	1523.1	1436.3	1408.2
52.5°	1410.7	1386.3	1335.0	1249.5	1244.6
55°	1254.4	1215.3	1142.0	1085.8	1083.4
57.5°	1089.5	1043.1	968.6	938.0	953.9
60°	957.6	886.7	801.2	804.9	830.5
62.5°	820.8	741.4	657.1	693.7	724.3
65°	706.0	621.7	532.5	604.6	646.1
67.5°	605.8	527.6	442.1	538.6	578.9
70°	522.8	459.2	376.2	477.6	522.8
72.5°	456.8	398.2	333.4	428.7	481.2
75°	395.7	343.2	302.9	377.4	436.0
77.5°	343.2	291.9	273.6	333.4	390.8
80°	288.2	241.8	239.4	290.7	333.4
82.5°	224.7	193.0	193.0	243.1	268.7
85°	158.8	139.2	135.6	177.1	179.5
87.5°	81.8	78.2	70.8	92.8	92.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)