

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: P476310

Luminaire Tested: **14GR-LD5-43-A-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476310
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-43-A-UNV-L850-CD1-U
Description: GR 1'X4' LED TROFFER w/ A LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4285.1 lumens
Efficiency: N/A
Efficacy: 129.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

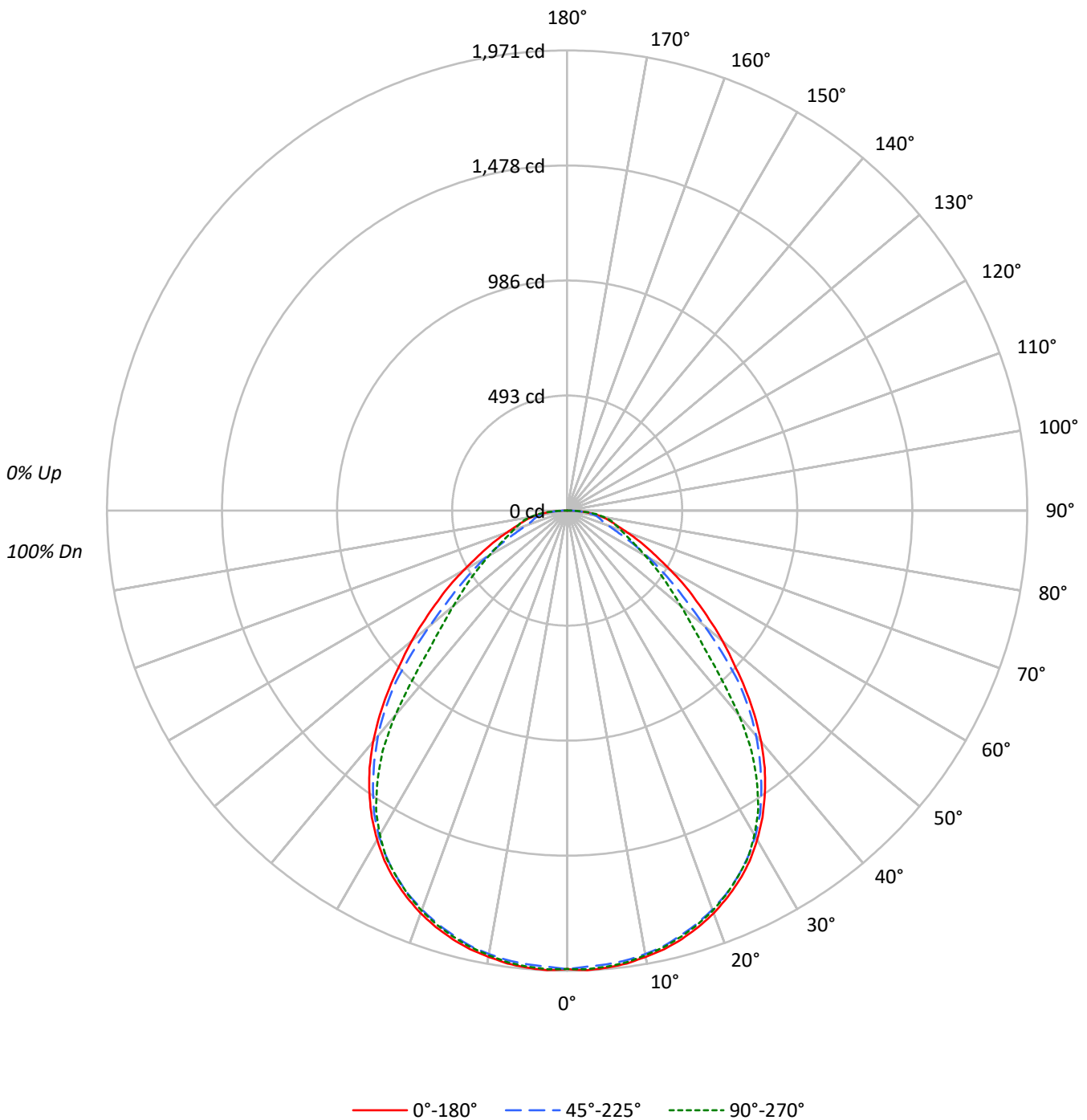
Input Watts (W): 33
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44
7	69	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6617	6617	6617
5°	6649	6598	6632
10°	6640	6599	6617
15°	6628	6569	6589
20°	6581	6520	6538
25°	6494	6431	6435
30°	6335	6269	6242
35°	6075	5965	5830
40°	5687	5542	5044
45°	5137	4942	3941
50°	4555	4012	3334
55°	3975	3292	2941
60°	3447	2709	2597
65°	3023	2173	2397
70°	2696	1844	2413
75°	2630	1945	2695
80°	2915	2453	3089
85°	3039	2617	3619



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.3	4.3
10°-20°	533.7	12.5
20°-30°	798.4	18.6
30°-40°	901.3	21.0
40°-50°	764.6	17.8
50°-60°	517.3	12.1
60°-70°	308.8	7.2
70°-80°	193.4	4.5
80°-90°	81.3	1.9
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°	1518.4	35.4
0°-40°	2419.7	56.5
0°-60°	3701.6	86.4
0°-90°	4285.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4285.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1964	1964	1964	1964	1964	
5°	1966	1960	1951	1964	1961	187
15°	1900	1896	1883	1896	1889	536
25°	1747	1741	1730	1738	1731	803
35°	1477	1467	1450	1437	1417	920
45°	1078	1082	1037	889	827	831
55°	677	645	560	502	501	610
65°	379	314	273	291	301	379
75°	202	180	149	197	207	217
85°	79	75	68	88	94	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1963.7	1963.7	1963.7	1963.7	1963.7
2.5°	1970.6	1964.5	1955.6	1967.7	1966.6
5°	1965.6	1959.7	1950.8	1964.5	1960.6
7.5°	1956.6	1951.6	1942.8	1955.6	1951.6
10°	1940.7	1936.8	1928.8	1939.7	1933.8
12.5°	1923.8	1920.9	1910.8	1920.9	1914.8
15°	1900.0	1896.0	1883.1	1896.0	1888.9
17.5°	1870.1	1865.1	1854.2	1865.1	1859.0
20°	1835.2	1829.4	1818.3	1829.4	1823.3
22.5°	1793.4	1788.4	1778.6	1788.4	1780.5
25°	1746.6	1740.8	1729.7	1737.6	1730.8
27.5°	1692.9	1685.0	1675.0	1681.0	1677.1
30°	1628.2	1618.3	1611.2	1611.2	1604.3
32.5°	1557.6	1550.7	1538.7	1531.6	1522.7
35°	1476.9	1467.1	1450.2	1437.2	1417.2
37.5°	1390.4	1378.5	1357.6	1324.6	1297.9
40°	1292.8	1277.8	1260.0	1195.3	1146.6
42.5°	1188.4	1185.2	1154.5	1044.0	976.3
45°	1077.9	1081.8	1037.1	888.8	827.1
47.5°	966.3	980.3	898.8	753.4	721.6
50°	868.9	873.7	765.3	653.9	636.0
52.5°	768.4	760.3	652.9	575.2	562.2
55°	676.7	645.0	560.3	501.6	500.6
57.5°	596.1	537.4	478.7	435.0	440.0
60°	511.5	445.9	402.0	378.2	385.3
62.5°	436.9	374.2	335.3	328.4	340.3
65°	379.2	314.4	272.6	290.6	300.6
67.5°	324.5	269.7	221.9	264.7	268.7
70°	273.7	233.8	187.2	243.8	244.9
72.5°	231.9	207.0	162.1	221.0	224.0
75°	202.0	180.1	149.4	197.0	207.0
77.5°	177.2	154.2	138.3	170.3	187.2
80°	150.2	124.3	126.4	142.3	159.2
82.5°	115.5	96.5	100.5	117.4	129.3
85°	78.6	74.6	67.7	87.5	93.6
87.5°	41.8	39.9	34.9	49.7	46.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)