

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: P476301

Luminaire Tested: **14GR-LD5-43-A-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476301
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-L840-CD1-U
Description: GR 1'X4' LED TROFFER w/ A LENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4280.9 lumens
Efficiency: N/A
Efficacy: 129.7 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

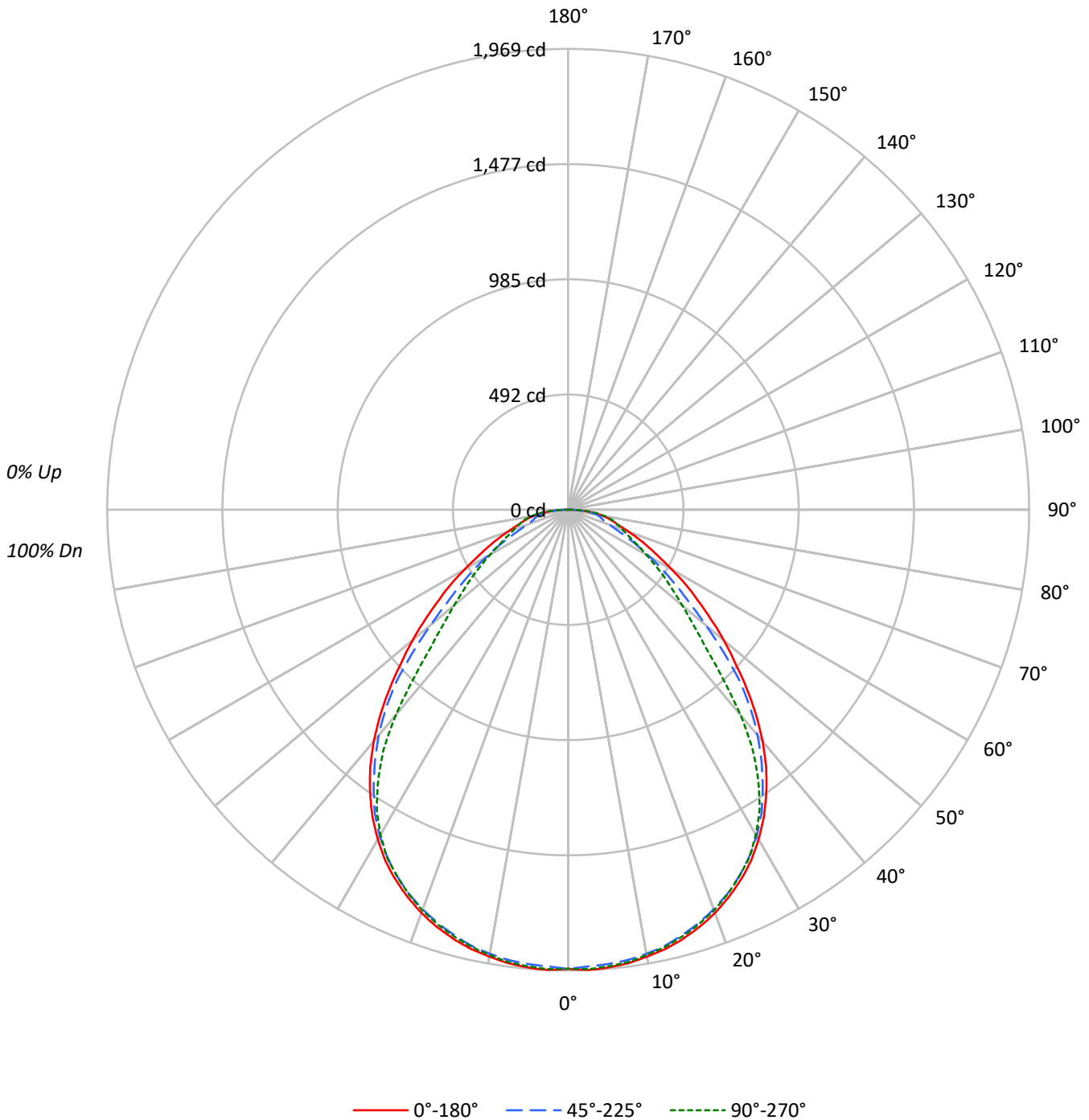
Input Watts (W): 33
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6610	6610	6610
5°	6642	6592	6625
10°	6634	6593	6610
15°	6621	6562	6583
20°	6574	6514	6532
25°	6487	6425	6429
30°	6329	6263	6236
35°	6069	5959	5824
40°	5681	5537	5039
45°	5131	4937	3938
50°	4551	4008	3331
55°	3972	3289	2938
60°	3444	2706	2594
65°	3020	2172	2395
70°	2694	1842	2410
75°	2627	1942	2692
80°	2913	2451	3085
85°	3035	2614	3615



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.1	4.3
10°-20°	533.2	12.5
20°-30°	797.6	18.6
30°-40°	900.4	21.0
40°-50°	763.8	17.8
50°-60°	516.8	12.1
60°-70°	308.5	7.2
70°-80°	193.2	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°	1516.9	35.4
0°-40°	2417.3	56.5
0°-60°	3698.0	86.4
0°-90°	4280.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4280.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1962	1962	1962	1962	1962	
5°	1964	1958	1949	1963	1959	187
15°	1898	1894	1881	1894	1887	535
25°	1745	1739	1728	1736	1729	802
35°	1476	1466	1449	1436	1416	919
45°	1077	1081	1036	888	826	830
55°	676	644	560	501	500	609
65°	379	314	272	290	300	379
75°	202	180	149	197	207	217
85°	78	74	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°	1961.8	1961.8	1961.8	1961.8	1961.8
2.5°	1968.7	1962.6	1953.6	1965.7	1964.7
5°	1963.7	1957.8	1948.8	1962.6	1958.6
7.5°	1954.7	1949.7	1940.9	1953.6	1949.7
10°	1938.8	1934.9	1926.9	1937.8	1931.9
12.5°	1921.9	1919.0	1909.0	1919.0	1912.9
15°	1898.1	1894.2	1881.2	1894.2	1887.1
17.5°	1868.3	1863.3	1852.4	1863.3	1857.2
20°	1833.4	1827.6	1816.5	1827.6	1821.5
22.5°	1791.7	1786.7	1776.9	1786.7	1778.7
25°	1744.9	1739.1	1728.0	1735.9	1729.1
27.5°	1691.3	1683.3	1673.3	1679.4	1675.4
30°	1626.6	1616.8	1609.7	1609.7	1602.8
32.5°	1556.0	1549.1	1537.2	1530.1	1521.2
35°	1475.5	1465.6	1448.7	1435.8	1415.8
37.5°	1389.0	1377.1	1356.3	1323.3	1296.6
40°	1291.6	1276.5	1258.8	1194.1	1145.5
42.5°	1187.2	1184.1	1153.4	1043.0	975.4
45°	1076.8	1080.8	1036.1	887.9	826.3
47.5°	965.3	979.3	897.9	752.7	720.9
50°	868.1	872.9	764.5	653.3	635.4
52.5°	767.7	759.5	652.3	574.6	561.7
55°	676.1	644.3	559.8	501.1	500.1
57.5°	595.5	536.8	478.2	434.6	439.6
60°	511.0	445.4	401.6	377.8	384.9
62.5°	436.4	373.8	335.0	328.1	340.0
65°	378.8	314.1	272.4	290.3	300.4
67.5°	324.1	269.5	221.7	264.5	268.4
70°	273.4	233.6	187.0	243.6	244.6
72.5°	231.7	206.8	162.0	220.8	223.8
75°	201.8	179.9	149.2	196.8	206.8
77.5°	177.0	154.0	138.2	170.1	187.0
80°	150.1	124.2	126.3	142.1	159.0
82.5°	115.4	96.4	100.4	117.3	129.2
85°	78.5	74.5	67.6	87.5	93.5
87.5°	41.7	39.9	34.9	49.7	46.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)