

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: P234057

Luminaire Tested: **14GR-LD5-60-A-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P234057
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33314)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-60-A-UNV-L930-CD1-U
Description: METALUX 1X4 GRLED TROFFER
WITH A LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4861.1 lumens
Efficiency: N/A
Efficacy: 81.2 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

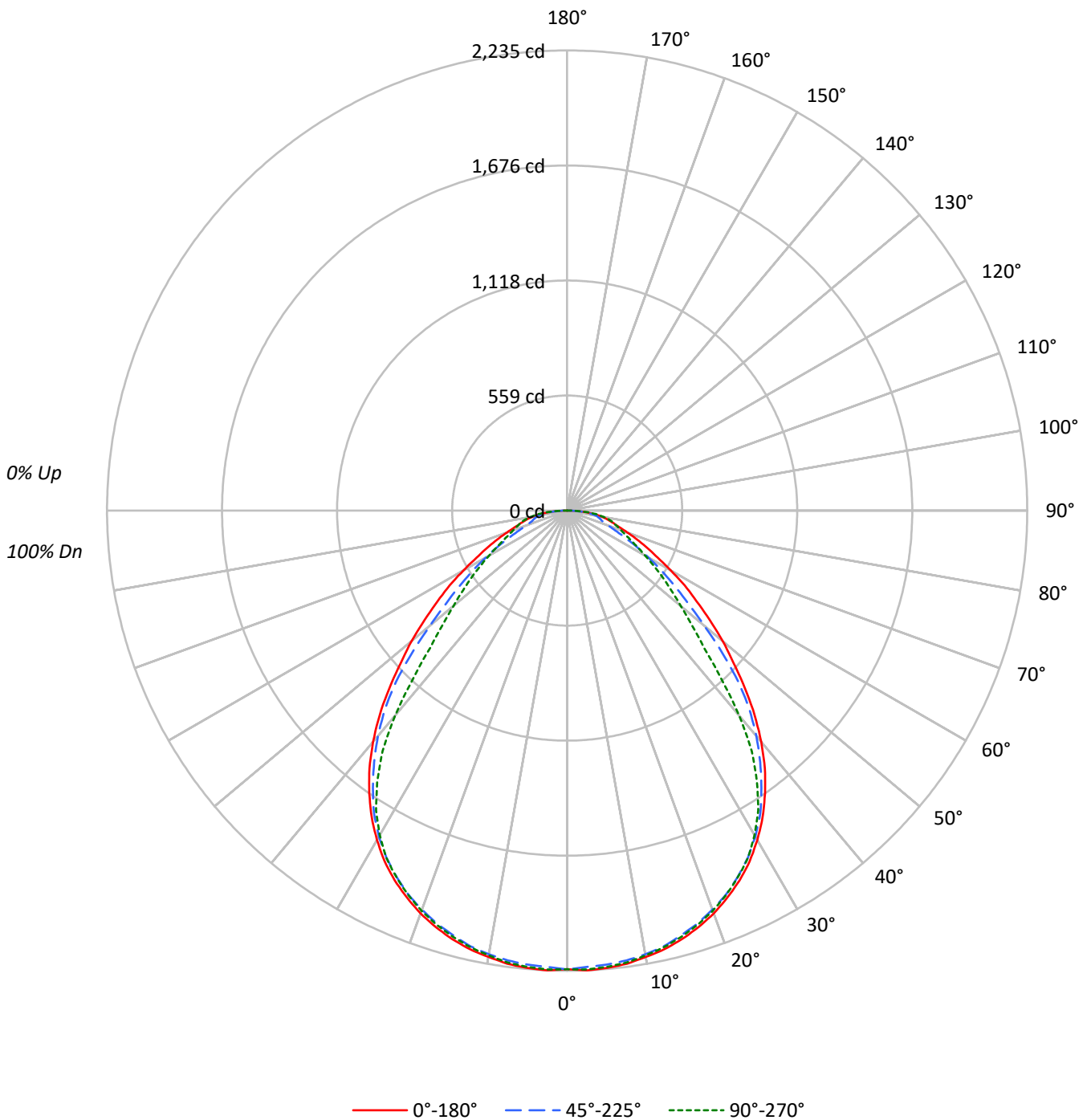
Input Watts (W): 59.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7506	7506	7506
5°	7542	7485	7523
10°	7533	7486	7506
15°	7519	7452	7475
20°	7466	7396	7417
25°	7367	7296	7300
30°	7187	7112	7081
35°	6892	6767	6613
40°	6451	6287	5721
45°	5827	5606	4471
50°	5167	4552	3782
55°	4511	3734	3336
60°	3911	3074	2944
65°	3430	2466	2719
70°	3059	2091	2736
75°	2984	2204	3057
80°	3308	2783	3504
85°	3449	2969	4106



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.4	4.3
10°-20°	605.5	12.5
20°-30°	905.7	18.6
30°-40°	1022.4	21.0
40°-50°	867.3	17.8
50°-60°	586.9	12.1
60°-70°	350.3	7.2
70°-80°	219.4	4.5
80°-90°	92.3	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°	1722.5	35.4
0°-40°	2744.9	56.5
0°-60°	4199.1	86.4
0°-90°	4861.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4861.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2228	2228	2228	2228	2228	
5°	2230	2223	2213	2229	2224	212
15°	2155	2151	2136	2151	2143	608
25°	1982	1975	1962	1971	1963	911
35°	1676	1664	1645	1630	1608	1044
45°	1223	1227	1176	1008	938	942
55°	768	732	636	569	568	692
65°	430	357	309	330	341	430
75°	229	204	169	224	235	246
85°	89	85	77	99	106	96
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2227.6	2227.6	2227.6	2227.6	2227.6
2.5°	2235.4	2228.7	2218.5	2232.1	2231.0
5°	2229.8	2223.1	2212.9	2228.7	2224.2
7.5°	2219.7	2214.0	2203.9	2218.5	2214.0
10°	2201.6	2197.1	2188.0	2200.5	2193.7
12.5°	2182.4	2179.0	2167.7	2179.0	2172.3
15°	2155.3	2150.8	2136.1	2150.8	2142.9
17.5°	2121.5	2115.8	2103.4	2115.8	2109.0
20°	2082.0	2075.2	2062.7	2075.2	2068.4
22.5°	2034.5	2028.9	2017.6	2028.9	2019.8
25°	1981.5	1974.7	1962.3	1971.2	1963.4
27.5°	1920.5	1911.4	1900.1	1906.9	1902.4
30°	1847.1	1835.8	1827.9	1827.9	1820.0
32.5°	1766.9	1759.0	1745.5	1737.6	1727.4
35°	1675.5	1664.2	1645.0	1630.3	1607.7
37.5°	1577.2	1563.7	1540.0	1502.7	1472.3
40°	1466.6	1449.7	1429.3	1356.0	1300.6
42.5°	1348.1	1344.7	1309.7	1184.3	1107.6
45°	1222.8	1227.2	1176.4	1008.2	938.2
47.5°	1096.3	1112.1	1019.5	854.7	818.5
50°	985.6	991.3	868.3	741.8	721.4
52.5°	871.6	862.6	740.6	652.5	637.9
55°	767.8	731.6	635.6	569.0	567.9
57.5°	676.3	609.6	543.1	493.4	499.0
60°	580.3	505.8	456.2	429.0	436.9
62.5°	495.7	424.5	380.5	372.6	386.1
65°	430.2	356.7	309.3	329.7	341.0
67.5°	368.1	305.9	251.7	300.3	304.9
70°	310.5	265.4	212.2	276.6	277.7
72.5°	263.0	234.8	184.0	250.7	254.1
75°	229.2	204.3	169.3	223.5	234.8
77.5°	200.9	175.0	157.0	193.1	212.2
80°	170.5	141.1	143.4	161.4	180.6
82.5°	131.0	109.5	114.0	133.2	146.7
85°	89.2	84.7	76.8	99.4	106.2
87.5°	47.4	45.2	39.5	56.4	53.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)