

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: P234050

Luminaire Tested: **14GR-LD5-60-F1-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P234050
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33313)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-60-F1-UNV-L935-CD1-U
Description: METALUX 1X4 GRLED TROFFER
WITH F1 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

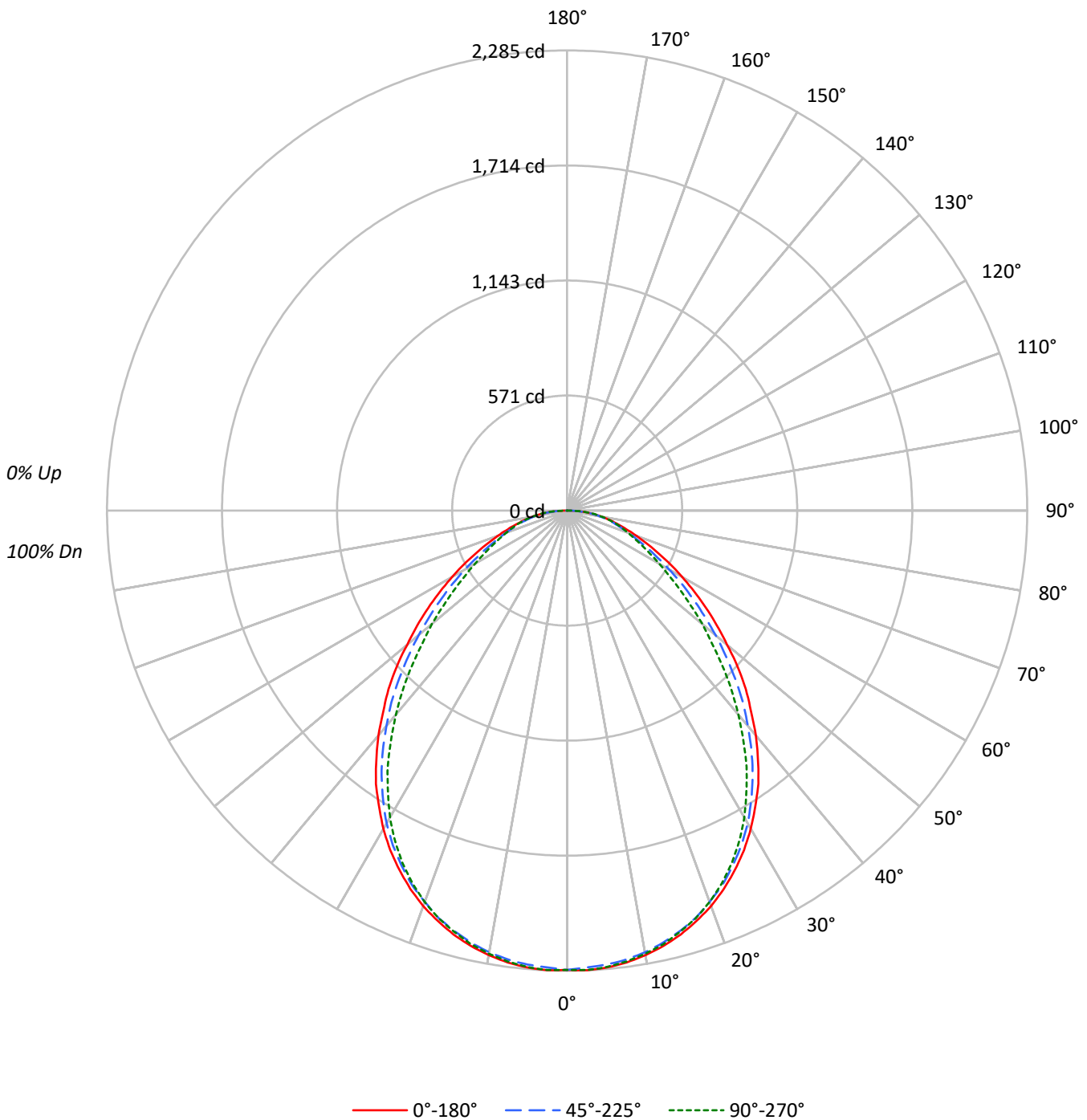
Lumens per Lamp: N/A
Luminaire Lumens: 5120.4 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.24
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63
4	85	74	66	59	83	73	65	59	70	64	58	68	62	58	66	61	57	55
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48
6	73	60	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43
7	68	55	47	41	66	54	47	41	53	46	41	51	45	40	50	44	40	38
8	64	51	43	37	62	50	42	37	49	42	37	47	41	36	46	41	36	34
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7686	7686	7686
5°	7704	7654	7695
10°	7669	7620	7644
15°	7601	7542	7555
20°	7494	7413	7417
25°	7324	7234	7185
30°	7098	6977	6846
35°	6808	6610	6392
40°	6412	6138	5815
45°	5979	5618	5200
50°	5437	5040	4593
55°	4949	4469	4003
60°	4438	3936	3556
65°	3958	3507	3268
70°	3599	3197	3161
75°	3364	3114	3270
80°	3380	3217	3404
85°	3534	3298	3762



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.7	4.2
10°-20°	611.5	11.9
20°-30°	896.6	17.5
30°-40°	1000.7	19.5
40°-50°	906.0	17.7
50°-60°	684.1	13.4
60°-70°	447.2	8.7
70°-80°	262.6	5.1
80°-90°	96.1	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°	1723.7	33.7
0°-40°	2724.4	53.2
0°-60°	4314.5	84.3
0°-90°	5120.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5120.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2281	2281	2281	2281	2281	
5°	2278	2273	2263	2276	2275	216
15°	2179	2175	2162	2174	2166	614
25°	1970	1963	1946	1942	1933	906
35°	1655	1640	1607	1571	1554	1031
45°	1255	1236	1179	1115	1091	964
55°	842	823	761	701	681	754
65°	496	481	440	415	410	498
75°	258	251	239	244	251	278
85°	91	88	85	96	97	97
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2281.1	2281.1	2281.1	2281.1	2281.1
2.5°	2284.7	2281.1	2270.3	2284.7	2283.5
5°	2277.5	2272.7	2263.0	2276.3	2275.1
7.5°	2263.0	2258.3	2248.7	2260.7	2258.3
10°	2241.4	2236.6	2227.0	2240.3	2234.2
12.5°	2213.8	2209.0	2198.2	2210.2	2205.4
15°	2179.0	2175.3	2162.1	2174.1	2165.7
17.5°	2136.9	2130.9	2121.3	2128.5	2122.4
20°	2090.0	2082.8	2067.2	2074.4	2068.4
22.5°	2033.5	2023.9	2013.1	2013.1	2004.6
25°	1969.8	1962.6	1945.8	1942.2	1932.6
27.5°	1901.3	1895.3	1873.7	1867.7	1850.9
30°	1824.4	1816.0	1793.2	1774.0	1759.5
32.5°	1739.1	1733.1	1701.8	1676.5	1656.1
35°	1655.0	1640.5	1606.8	1570.8	1554.0
37.5°	1556.4	1545.6	1503.5	1459.0	1436.2
40°	1457.8	1444.7	1395.4	1346.1	1322.0
42.5°	1350.9	1338.8	1292.0	1233.1	1207.8
45°	1254.8	1235.5	1179.0	1115.3	1091.3
47.5°	1148.9	1128.5	1068.4	1001.1	973.5
50°	1037.2	1024.0	961.5	896.6	876.2
52.5°	937.5	917.0	858.2	794.4	772.8
55°	842.5	823.2	760.8	700.7	681.4
57.5°	747.6	725.9	671.8	617.8	598.5
60°	658.6	637.0	584.1	539.7	527.6
62.5°	578.1	554.0	507.2	472.3	463.9
65°	496.4	480.8	439.9	414.6	409.9
67.5°	427.9	408.6	376.2	364.1	361.8
70°	365.3	352.2	324.5	320.9	320.9
72.5°	308.9	298.1	277.6	280.0	283.6
75°	258.4	251.2	239.2	244.0	251.2
77.5°	215.1	207.9	200.7	207.9	212.8
80°	174.2	167.0	165.8	171.9	175.4
82.5°	131.0	125.0	126.2	135.8	139.4
85°	91.4	87.7	85.3	96.1	97.3
87.5°	46.8	44.5	43.3	51.7	49.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)