

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: CORELITE

Report Number: P234544

Luminaire Tested: **CTA-F-0100-30L840-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234544
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-282-16)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: CTA-F-0100-30L840-UNV-8
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
3000 LUMENS, 0% UPLIGHT, 100% DOWNLIGHT
Light Source: (672) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6228.3 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.23 / 1.36
Luminous Opening: Rectangular (W 0.42' x L: 8' x H: 0')
CIE Type: Direct

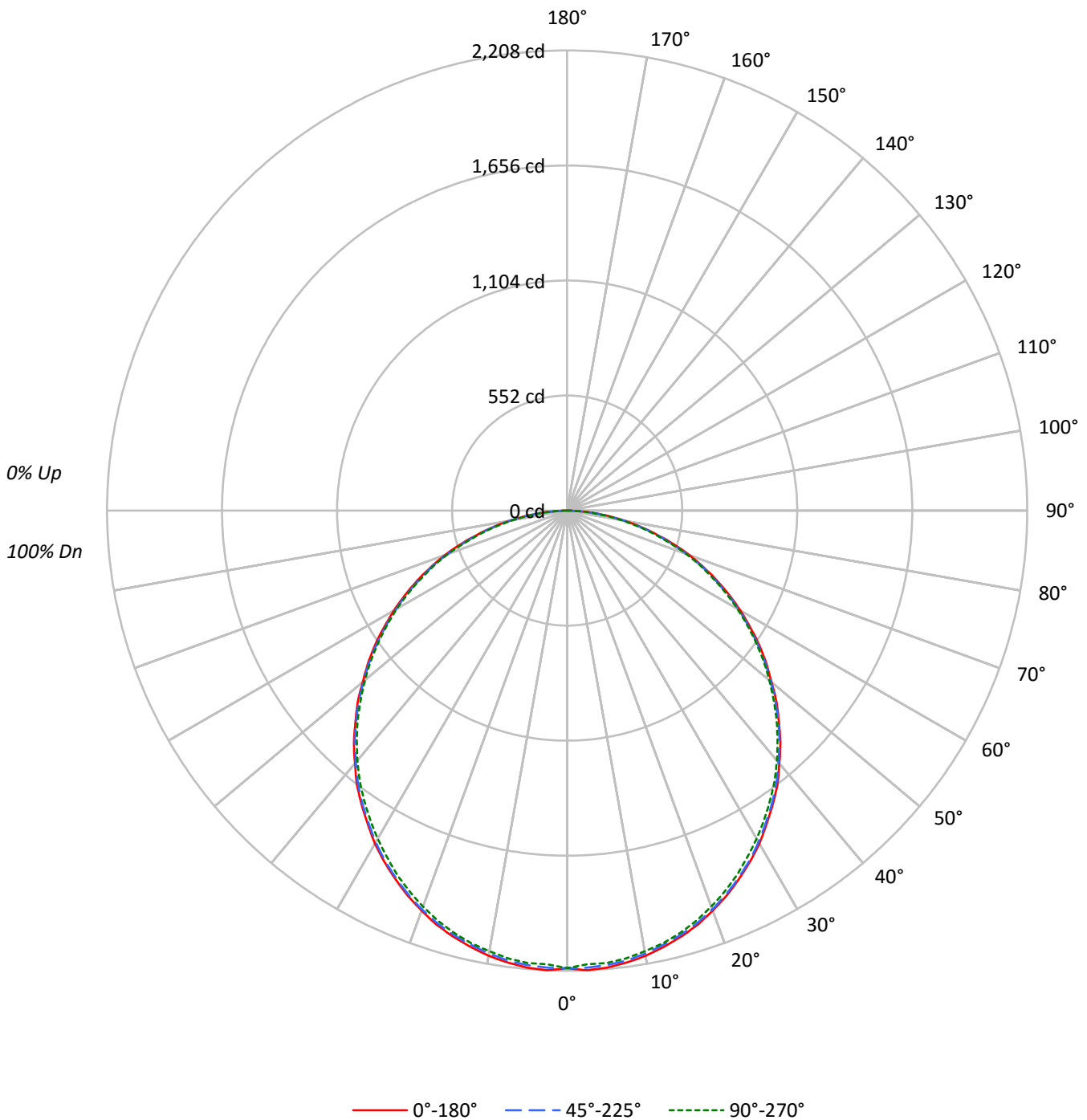
Input Watts (W): 62.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	62	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7089	7089	7089
5°	7136	7096	7063
10°	7111	7078	7038
15°	7073	7046	7012
20°	7018	6997	6949
25°	6950	6928	6870
30°	6878	6848	6779
35°	6782	6757	6693
40°	6676	6651	6599
45°	6562	6544	6488
50°	6431	6410	6359
55°	6334	6277	6231
60°	6200	6134	6095
65°	6059	5965	5918
70°	5889	5754	5735
75°	5569	5468	5366
80°	5154	5080	4890
85°	4605	4305	3927



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.6	3.3
10°-20°	593.2	9.5
20°-30°	892.8	14.3
30°-40°	1067.8	17.1
40°-50°	1101.2	17.7
50°-60°	995.7	16.0
60°-70°	773.7	12.4
70°-80°	463.6	7.4
80°-90°	132.7	2.1
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°	1693.7	27.2
0°-40°	2761.4	44.3
0°-60°	4858.3	78.0
0°-90°	6228.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6228.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2195	2195	2195	2195	2195	
5°	2202	2181	2189	2183	2179	209
15°	2116	2096	2108	2102	2098	597
25°	1951	1934	1945	1930	1928	899
35°	1720	1704	1714	1700	1698	1076
45°	1437	1431	1433	1419	1421	1110
55°	1125	1119	1115	1107	1107	1005
65°	793	785	781	775	775	784
75°	446	440	438	434	430	474
85°	124	122	116	110	106	140
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2195.4	2195.4	2195.4	2195.4	2195.4
2.5°	2207.7	2187.3	2195.4	2191.3	2179.1
5°	2201.5	2181.2	2189.3	2183.2	2179.1
7.5°	2187.3	2166.9	2177.1	2171.0	2166.9
10°	2168.9	2148.5	2158.7	2152.6	2146.5
12.5°	2144.5	2124.1	2134.3	2128.2	2126.1
15°	2115.9	2095.5	2107.8	2101.7	2097.6
17.5°	2083.3	2062.9	2075.2	2071.1	2062.9
20°	2042.5	2024.2	2036.4	2026.2	2022.2
22.5°	1999.7	1983.4	1993.6	1979.3	1977.3
25°	1950.8	1934.5	1944.7	1930.4	1928.4
27.5°	1899.8	1883.5	1893.7	1879.5	1873.3
30°	1844.8	1826.5	1836.7	1822.4	1818.3
32.5°	1781.6	1767.3	1775.5	1763.3	1759.2
35°	1720.5	1704.2	1714.3	1700.1	1698.0
37.5°	1657.3	1641.0	1649.1	1632.8	1634.8
40°	1583.9	1571.7	1577.8	1563.5	1565.5
42.5°	1514.6	1504.4	1508.5	1492.2	1494.2
45°	1437.1	1431.0	1433.0	1418.8	1420.8
47.5°	1363.7	1353.5	1355.6	1343.3	1343.3
50°	1280.2	1276.1	1276.1	1265.9	1265.9
52.5°	1204.7	1198.6	1196.6	1186.4	1188.4
55°	1125.2	1119.1	1115.0	1106.9	1106.9
57.5°	1041.7	1037.6	1031.5	1023.3	1025.3
60°	960.1	956.0	949.9	941.8	943.8
62.5°	876.5	870.4	866.3	862.3	858.2
65°	793.0	784.8	780.7	774.6	774.6
67.5°	707.3	701.2	697.2	693.1	693.1
70°	623.8	615.6	609.5	607.5	607.5
72.5°	536.1	528.0	521.8	521.8	513.7
75°	446.4	440.3	438.3	434.2	430.1
77.5°	362.8	356.7	354.7	350.6	346.5
80°	277.2	275.2	273.2	267.0	263.0
82.5°	199.8	197.7	193.7	187.5	183.5
85°	124.3	122.3	116.2	110.1	106.0
87.5°	53.0	51.0	42.8	36.7	34.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)