

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: P234542

Luminaire Tested: **CTA-F-0100-30L830-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234542
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-0100-30L830-UNV-8
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
3000 LUMENS, 0% UPLIGHT, 100% DOWNLIGHT
Light Source: (672) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5875.8 lumens
Efficiency: N/A
Efficacy: 93.9 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

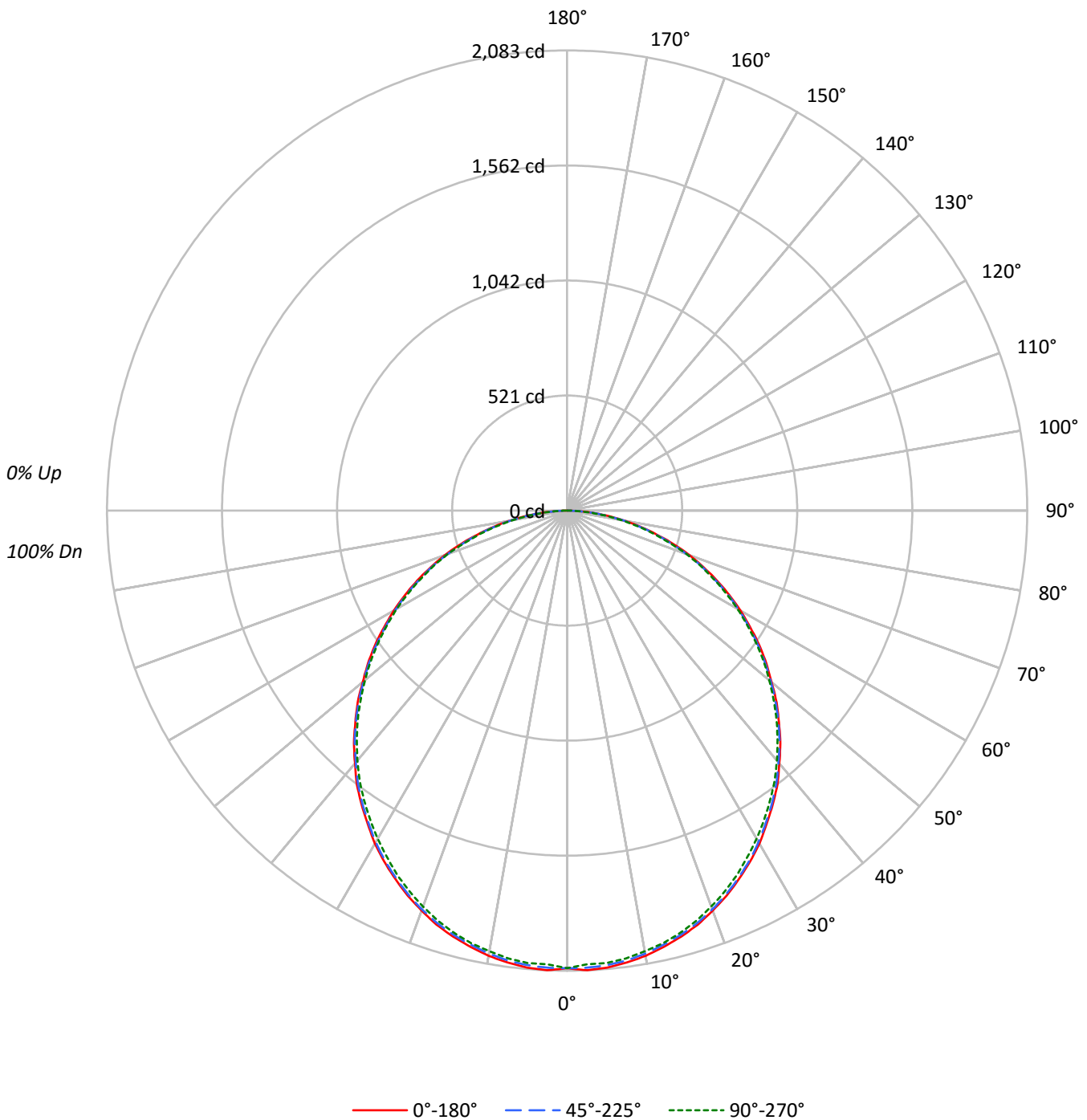
Input Watts (W): 62.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6688	6688	6688
5°	6732	6694	6663
10°	6709	6677	6639
15°	6673	6647	6615
20°	6621	6602	6555
25°	6557	6536	6481
30°	6489	6460	6396
35°	6398	6375	6314
40°	6298	6274	6225
45°	6191	6173	6121
50°	6067	6047	5999
55°	5976	5922	5878
60°	5850	5788	5750
65°	5716	5627	5584
70°	5556	5428	5410
75°	5255	5159	5063
80°	4862	4792	4613
85°	4346	4060	3705



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.9	3.3
10°-20°	559.7	9.5
20°-30°	842.3	14.3
30°-40°	1007.3	17.1
40°-50°	1038.9	17.7
50°-60°	939.3	16.0
60°-70°	729.9	12.4
70°-80°	437.3	7.4
80°-90°	125.2	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°	1597.8	27.2
0°-40°	2605.1	44.3
0°-60°	4583.3	78.0
0°-90°	5875.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5875.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2071	2071	2071	2071	2071	
5°	2077	2058	2065	2060	2056	197
15°	1996	1977	1988	1983	1979	563
25°	1840	1825	1835	1821	1819	848
35°	1623	1608	1617	1604	1602	1015
45°	1356	1350	1352	1338	1340	1047
55°	1062	1056	1052	1044	1044	948
65°	748	740	736	731	731	740
75°	421	415	414	410	406	447
85°	117	115	110	104	100	132
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2071.2	2071.2	2071.2	2071.2	2071.2
2.5°	2082.7	2063.5	2071.2	2067.3	2055.8
5°	2076.9	2057.7	2065.4	2059.6	2055.8
7.5°	2063.5	2044.2	2053.8	2048.1	2044.2
10°	2046.2	2026.9	2036.5	2030.8	2025.0
12.5°	2023.1	2003.8	2013.5	2007.7	2005.8
15°	1996.2	1976.9	1988.5	1982.7	1978.8
17.5°	1965.4	1946.2	1957.7	1953.8	1946.2
20°	1926.9	1909.6	1921.2	1911.5	1907.7
22.5°	1886.5	1871.2	1880.8	1867.3	1865.4
25°	1840.4	1825.0	1834.6	1821.2	1819.2
27.5°	1792.3	1776.9	1786.5	1773.1	1767.3
30°	1740.4	1723.1	1732.7	1719.2	1715.4
32.5°	1680.8	1667.3	1675.0	1663.5	1659.6
35°	1623.1	1607.7	1617.3	1603.8	1601.9
37.5°	1563.5	1548.1	1555.8	1540.4	1542.3
40°	1494.2	1482.7	1488.5	1475.0	1476.9
42.5°	1428.8	1419.2	1423.1	1407.7	1409.6
45°	1355.8	1350.0	1351.9	1338.5	1340.4
47.5°	1286.5	1276.9	1278.8	1267.3	1267.3
50°	1207.7	1203.8	1203.8	1194.2	1194.2
52.5°	1136.5	1130.8	1128.8	1119.2	1121.2
55°	1061.5	1055.8	1051.9	1044.2	1044.2
57.5°	982.7	978.8	973.1	965.4	967.3
60°	905.8	901.9	896.2	888.5	890.4
62.5°	826.9	821.2	817.3	813.5	809.6
65°	748.1	740.4	736.5	730.8	730.8
67.5°	667.3	661.5	657.7	653.8	653.8
70°	588.5	580.8	575.0	573.1	573.1
72.5°	505.8	498.1	492.3	492.3	484.6
75°	421.2	415.4	413.5	409.6	405.8
77.5°	342.3	336.5	334.6	330.8	326.9
80°	261.5	259.6	257.7	251.9	248.1
82.5°	188.5	186.5	182.7	176.9	173.1
85°	117.3	115.4	109.6	103.8	100.0
87.5°	50.0	48.1	40.4	34.6	32.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)