

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: P302428

Luminaire Tested: **ZX-WO-70L835-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302428
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1902-133-42)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: ZX-WO-70L835-UNV-24-STD
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.
FLAT LENS, STANDARD LUMEN PACKAGE.
Light Source: (392)3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

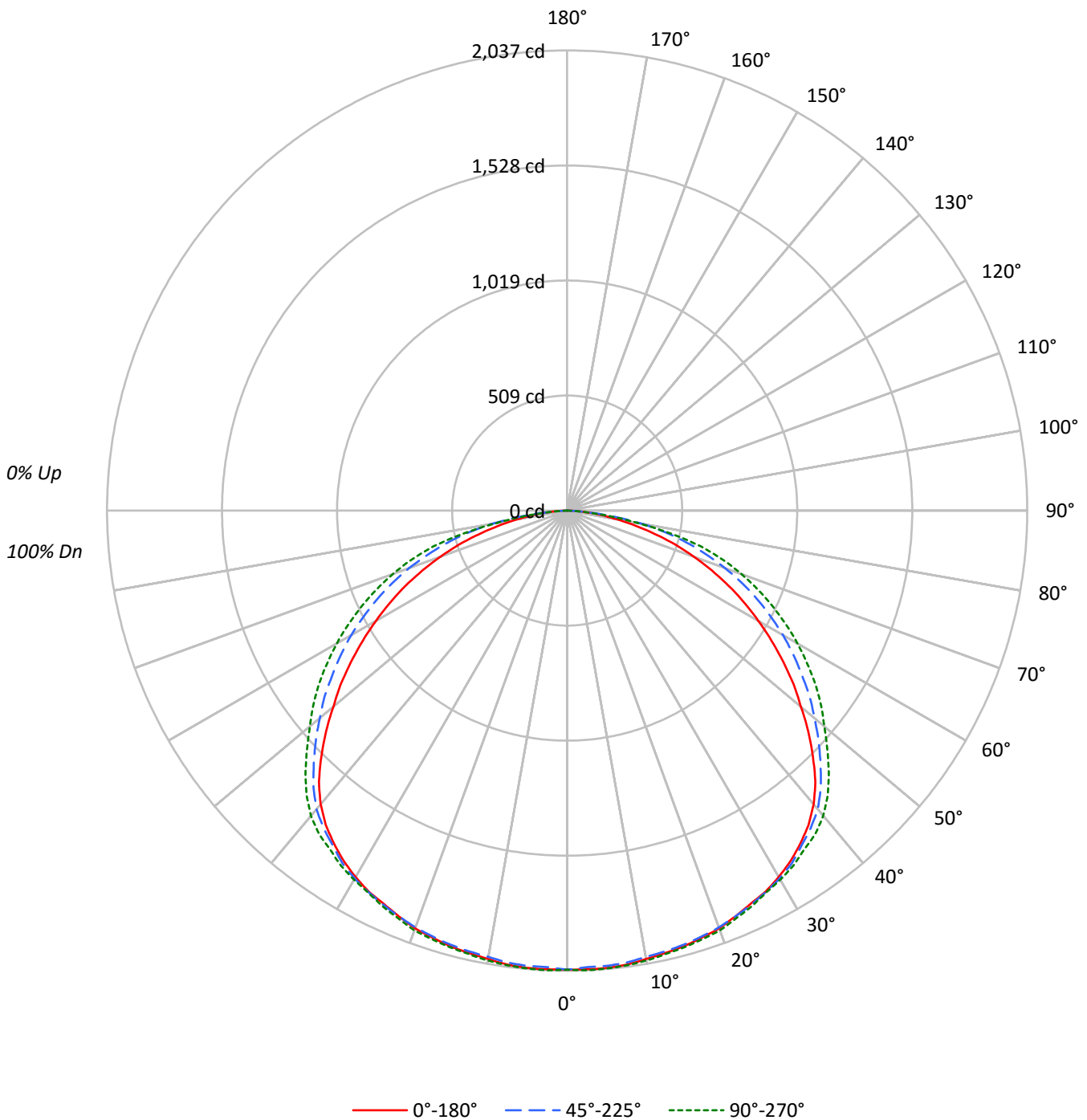
Lumens per Lamp: N/A
Luminaire Lumens: 6723.5 lumens
Efficiency: N/A
Efficacy: 131.8 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.39 / 1.48
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 51
Input Voltage (V): 120
Input Current (A_{in}): 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	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	74	81	76	72	77	74	70	68
3	89	78	69	63	86	76	68	62	73	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	67	59	52	65	57	52	62	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	38	50	43	38	49	43	38	36
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	41	34	30	28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25
10	52	38	30	25	50	37	30	24	36	29	24	35	29	24	35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2734	2734	2734
5°	2745	2732	2748
10°	2754	2741	2764
15°	2781	2771	2788
20°	2818	2811	2832
25°	2852	2859	2869
30°	2910	2921	2932
35°	2956	2972	3007
40°	2982	3032	3098
45°	2927	3018	3117
50°	2828	2992	3111
55°	2740	2974	3147
60°	2632	2971	3169
65°	2517	2955	3197
70°	2344	2923	3232
75°	2098	2851	3185
80°	1748	2631	2447
85°	1320	1539	1283



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.4	2.9
10°-20°	564.8	8.4
20°-30°	890.8	13.2
30°-40°	1137.3	16.9
40°-50°	1225.1	18.2
50°-60°	1128.7	16.8
60°-70°	902.8	13.4
70°-80°	554.1	8.2
80°-90°	126.4	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°	1649.0	24.5
0°-40°	2786.3	41.4
0°-60°	5140.1	76.5
0°-90°	6723.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6723.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2032	2032	2032	2032	2032	
5°	2032	2032	2023	2035	2035	193
15°	1997	1999	1990	2002	2002	565
25°	1921	1923	1926	1935	1933	888
35°	1800	1804	1809	1828	1830	1125
45°	1538	1555	1586	1626	1638	1185
55°	1168	1199	1268	1325	1341	1044
65°	791	843	928	985	1004	781
75°	404	468	548	598	613	430
85°	86	114	100	88	83	105
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2032.3	2032.3	2032.3	2032.3	2032.3
2.5°	2032.3	2034.7	2022.8	2034.7	2037.1
5°	2032.3	2032.3	2022.8	2034.7	2034.7
7.5°	2027.6	2027.6	2018.1	2030.0	2030.0
10°	2015.7	2015.7	2006.2	2018.1	2022.8
12.5°	2006.2	2006.2	1999.1	2011.0	2011.0
15°	1996.7	1999.1	1989.6	2001.5	2001.5
17.5°	1982.5	1982.5	1977.7	1987.2	1989.6
20°	1968.2	1968.2	1963.5	1975.4	1977.7
22.5°	1944.5	1946.9	1944.5	1954.0	1954.0
25°	1920.8	1923.1	1925.5	1935.0	1932.6
27.5°	1901.8	1904.1	1904.1	1913.6	1906.5
30°	1873.3	1880.4	1880.4	1885.1	1887.5
32.5°	1840.0	1849.5	1851.9	1861.4	1863.8
35°	1799.7	1804.4	1809.2	1828.2	1830.5
37.5°	1754.6	1766.4	1771.2	1797.3	1804.4
40°	1697.6	1711.8	1726.1	1759.3	1764.1
42.5°	1626.4	1643.0	1662.0	1697.6	1707.1
45°	1538.5	1555.1	1586.0	1626.4	1638.2
47.5°	1448.3	1467.3	1510.0	1552.7	1562.2
50°	1350.9	1379.4	1429.3	1479.1	1486.3
52.5°	1263.1	1291.6	1353.3	1405.5	1417.4
55°	1168.1	1199.0	1267.8	1324.8	1341.4
57.5°	1073.2	1113.5	1187.1	1244.1	1260.7
60°	978.2	1020.9	1104.0	1156.3	1177.6
62.5°	885.6	933.1	1016.2	1075.5	1092.1
65°	790.6	842.9	928.3	985.3	1004.3
67.5°	693.3	747.9	838.1	895.1	914.1
70°	595.9	657.7	743.1	804.9	821.5
72.5°	503.3	560.3	645.8	700.4	721.8
75°	403.6	467.7	548.4	598.3	612.6
77.5°	313.4	375.1	446.4	477.2	472.5
80°	225.6	289.7	339.5	330.0	315.8
82.5°	152.0	204.2	211.3	197.1	192.3
85°	85.5	114.0	99.7	87.8	83.1
87.5°	35.6	30.9	16.6	7.1	4.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)