

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: P302435

Luminaire Tested: **ZX-WO-55L840-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302435
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-55L840-UNV-24-STD
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.
FLAT LENS, STANDARD LUMEN PACKAGE.
Light Source: (224)4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

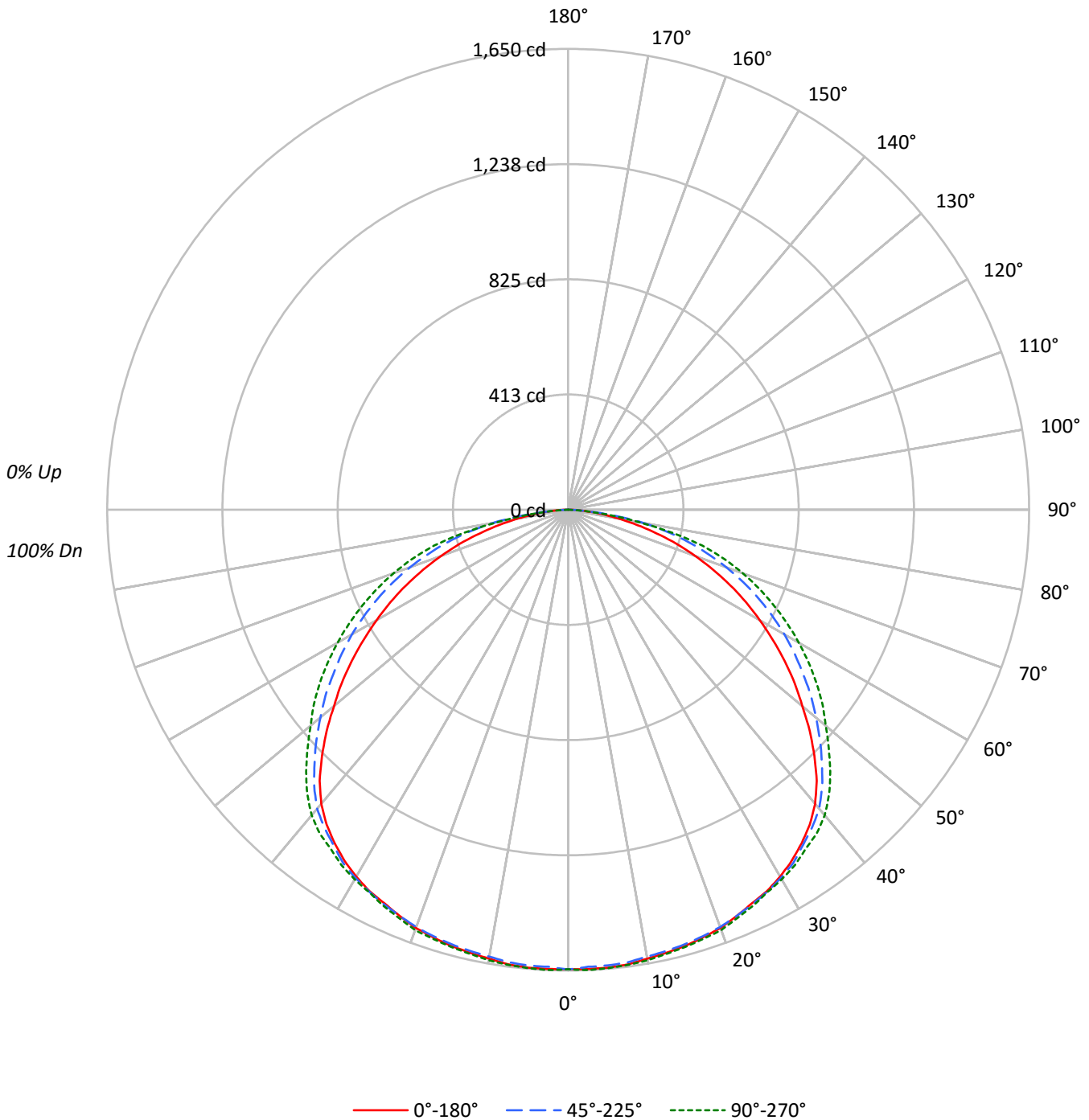
Lumens per Lamp: N/A
Luminaire Lumens: 5444.4 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.39 / 1.48
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 43.5
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	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°	2214	2214	2214
5°	2223	2212	2225
10°	2230	2220	2238
15°	2252	2244	2258
20°	2282	2277	2293
25°	2309	2315	2323
30°	2357	2366	2375
35°	2394	2406	2435
40°	2414	2455	2509
45°	2371	2444	2524
50°	2290	2423	2519
55°	2219	2408	2548
60°	2132	2406	2566
65°	2038	2393	2589
70°	1899	2367	2617
75°	1699	2309	2578
80°	1415	2130	1981
85°	1068	1246	1039



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.6	2.9
10°-20°	457.4	8.4
20°-30°	721.4	13.2
30°-40°	920.9	16.9
40°-50°	992.0	18.2
50°-60°	914.0	16.8
60°-70°	731.1	13.4
70°-80°	448.7	8.2
80°-90°	102.4	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°	1335.3	24.5
0°-40°	2256.3	41.4
0°-60°	4162.3	76.5
0°-90°	5444.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5444.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1646	1646	1646	1646	1646	
5°	1646	1646	1638	1648	1648	157
15°	1617	1619	1611	1621	1621	457
25°	1555	1557	1559	1567	1565	719
35°	1457	1461	1465	1480	1482	911
45°	1246	1259	1284	1317	1327	959
55°	946	971	1027	1073	1086	845
65°	640	682	752	798	813	632
75°	327	379	444	484	496	348
85°	69	92	81	71	67	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1645.7	1645.7	1645.7	1645.7	1645.7
2.5°	1645.7	1647.6	1638.0	1647.6	1649.5
5°	1645.7	1645.7	1638.0	1647.6	1647.6
7.5°	1641.9	1641.9	1634.2	1643.8	1643.8
10°	1632.2	1632.2	1624.6	1634.2	1638.0
12.5°	1624.6	1624.6	1618.8	1628.4	1628.4
15°	1616.9	1618.8	1611.1	1620.7	1620.7
17.5°	1605.3	1605.3	1601.5	1609.2	1611.1
20°	1593.8	1593.8	1590.0	1599.6	1601.5
22.5°	1574.6	1576.5	1574.6	1582.3	1582.3
25°	1555.3	1557.3	1559.2	1566.9	1565.0
27.5°	1540.0	1541.9	1541.9	1549.6	1543.8
30°	1516.9	1522.7	1522.7	1526.5	1528.4
32.5°	1490.0	1497.7	1499.6	1507.3	1509.2
35°	1457.3	1461.1	1465.0	1480.4	1482.3
37.5°	1420.8	1430.4	1434.2	1455.4	1461.1
40°	1374.6	1386.2	1397.7	1424.6	1428.5
42.5°	1316.9	1330.4	1345.8	1374.6	1382.3
45°	1245.8	1259.3	1284.3	1316.9	1326.6
47.5°	1172.8	1188.1	1222.7	1257.3	1265.0
50°	1093.9	1117.0	1157.4	1197.7	1203.5
52.5°	1022.8	1045.9	1095.9	1138.2	1147.8
55°	945.9	970.9	1026.6	1072.8	1086.2
57.5°	869.0	901.7	961.3	1007.4	1020.9
60°	792.1	826.7	894.0	936.3	953.6
62.5°	717.1	755.6	822.9	870.9	884.4
65°	640.2	682.5	751.7	797.9	813.2
67.5°	561.4	605.6	678.7	724.8	740.2
70°	482.6	532.5	601.8	651.7	665.2
72.5°	407.6	453.7	522.9	567.2	584.5
75°	326.8	378.7	444.1	484.5	496.0
77.5°	253.8	303.8	361.4	386.4	382.6
80°	182.6	234.6	274.9	267.2	255.7
82.5°	123.0	165.3	171.1	159.6	155.7
85°	69.2	92.3	80.7	71.1	67.3
87.5°	28.8	25.0	13.5	5.8	3.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)