

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: P302316

Luminaire Tested: **ZX-WO-50H840-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302316
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1902-133-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: ZX-WO-50H840-UNV-24-STD
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.
FLAT LENS, HIGH PERFORMANCE LUMEN PACKAGE.
Light Source: (336)4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

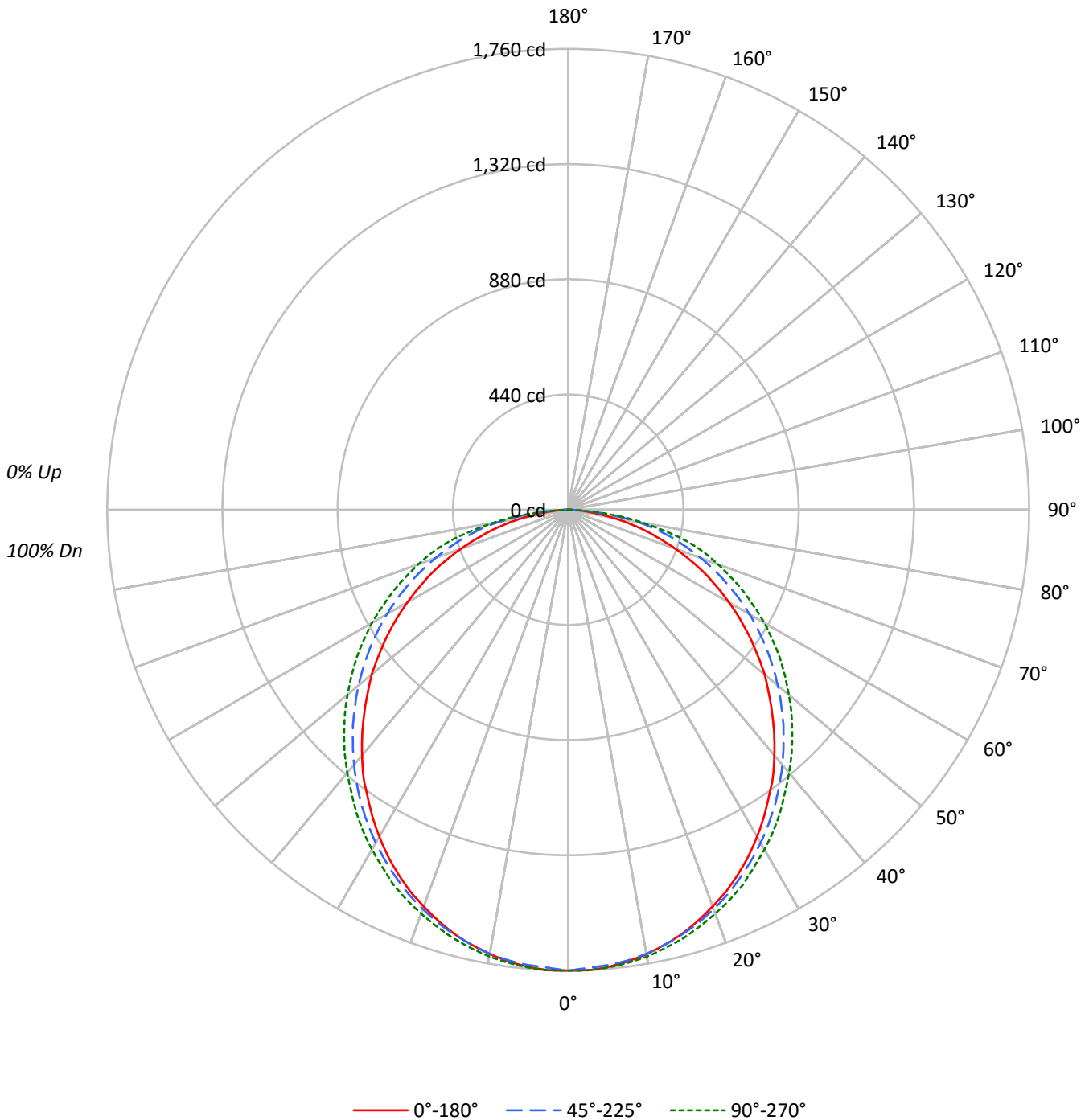
Lumens per Lamp: N/A
Luminaire Lumens: 5124.2 lumens
Efficiency: N/A
Efficacy: 141.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 36.3
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	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					100			
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68					68			
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57					57			
4	82	69	60	54	79	68	60	53	65	58	52	63	57	52	61	55	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	44	39	37					37			
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32					32			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	42	35	31	29					29			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2369	2369	2369
5°	2368	2358	2370
10°	2355	2353	2368
15°	2338	2340	2360
20°	2308	2324	2350
25°	2279	2304	2345
30°	2240	2283	2329
35°	2194	2260	2317
40°	2150	2234	2305
45°	2096	2211	2302
50°	2049	2187	2302
55°	1983	2168	2314
60°	1911	2152	2329
65°	1835	2132	2348
70°	1713	2116	2390
75°	1560	2122	2464
80°	1290	2098	2269
85°	988	1667	1610



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.5	3.2
10°-20°	475.3	9.3
20°-30°	717.0	14.0
30°-40°	860.8	16.8
40°-50°	895.2	17.5
50°-60°	823.3	16.1
60°-70°	656.2	12.8
70°-80°	415.8	8.1
80°-90°	114.4	2.2
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°	1358.7	26.5
0°-40°	2219.5	43.3
0°-60°	3937.9	76.8
0°-90°	5124.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5124.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1760	1760	1760	1760	1760	
5°	1753	1753	1746	1755	1755	166
15°	1678	1678	1680	1693	1695	473
25°	1535	1543	1552	1574	1579	707
35°	1336	1350	1376	1402	1411	837
45°	1102	1125	1162	1199	1210	851
55°	846	873	924	970	986	756
65°	576	606	670	721	738	568
75°	300	338	408	459	474	316
85°	64	92	108	106	104	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1760.5	1760.5	1760.5	1760.5	1760.5
2.5°	1760.5	1760.5	1751.3	1760.5	1760.5
5°	1753.1	1753.1	1745.8	1755.0	1755.0
7.5°	1740.3	1742.2	1736.7	1745.8	1745.8
10°	1723.9	1725.7	1722.0	1733.0	1733.0
12.5°	1701.9	1703.7	1701.9	1714.7	1714.7
15°	1678.1	1678.1	1679.9	1692.7	1694.6
17.5°	1647.0	1650.7	1654.3	1669.0	1669.0
20°	1612.2	1617.7	1623.2	1641.5	1641.5
22.5°	1577.5	1582.9	1590.3	1608.6	1612.2
25°	1535.4	1542.7	1551.8	1573.8	1579.3
27.5°	1491.4	1496.9	1511.6	1535.4	1537.2
30°	1442.0	1451.2	1469.5	1493.3	1498.8
32.5°	1390.8	1403.6	1423.7	1451.2	1456.7
35°	1335.9	1350.5	1376.2	1401.8	1410.9
37.5°	1284.7	1295.6	1324.9	1354.2	1359.7
40°	1224.3	1240.7	1271.8	1304.8	1312.1
42.5°	1163.9	1182.2	1216.9	1249.9	1262.7
45°	1101.7	1125.4	1162.0	1198.6	1209.6
47.5°	1039.4	1065.1	1103.5	1143.7	1156.6
50°	979.0	1002.8	1044.9	1087.0	1099.8
52.5°	911.3	938.8	984.5	1030.3	1043.1
55°	845.5	872.9	924.1	969.9	986.4
57.5°	777.7	808.9	861.9	909.5	924.1
60°	710.0	743.0	799.7	847.3	865.6
62.5°	642.3	673.4	735.7	783.2	799.7
65°	576.4	605.7	669.8	721.0	737.5
67.5°	505.1	538.0	603.9	657.0	671.6
70°	435.5	468.5	538.0	592.9	607.6
72.5°	364.2	402.6	472.1	525.2	545.3
75°	300.1	338.5	408.1	459.3	474.0
77.5°	232.4	270.8	342.2	378.8	380.6
80°	166.5	210.4	270.8	285.5	292.8
82.5°	109.8	151.9	186.7	205.0	205.0
85°	64.0	91.5	108.0	106.1	104.3
87.5°	23.8	31.1	25.6	18.3	12.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)