

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: P302345

Luminaire Tested: **ZX-WO-45H940-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302345
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-45H940-UNV-24-STD
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.
FLAT LENS, HIGH PERFORMANCE LUMEN PACKAGE.
Light Source: (252)4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

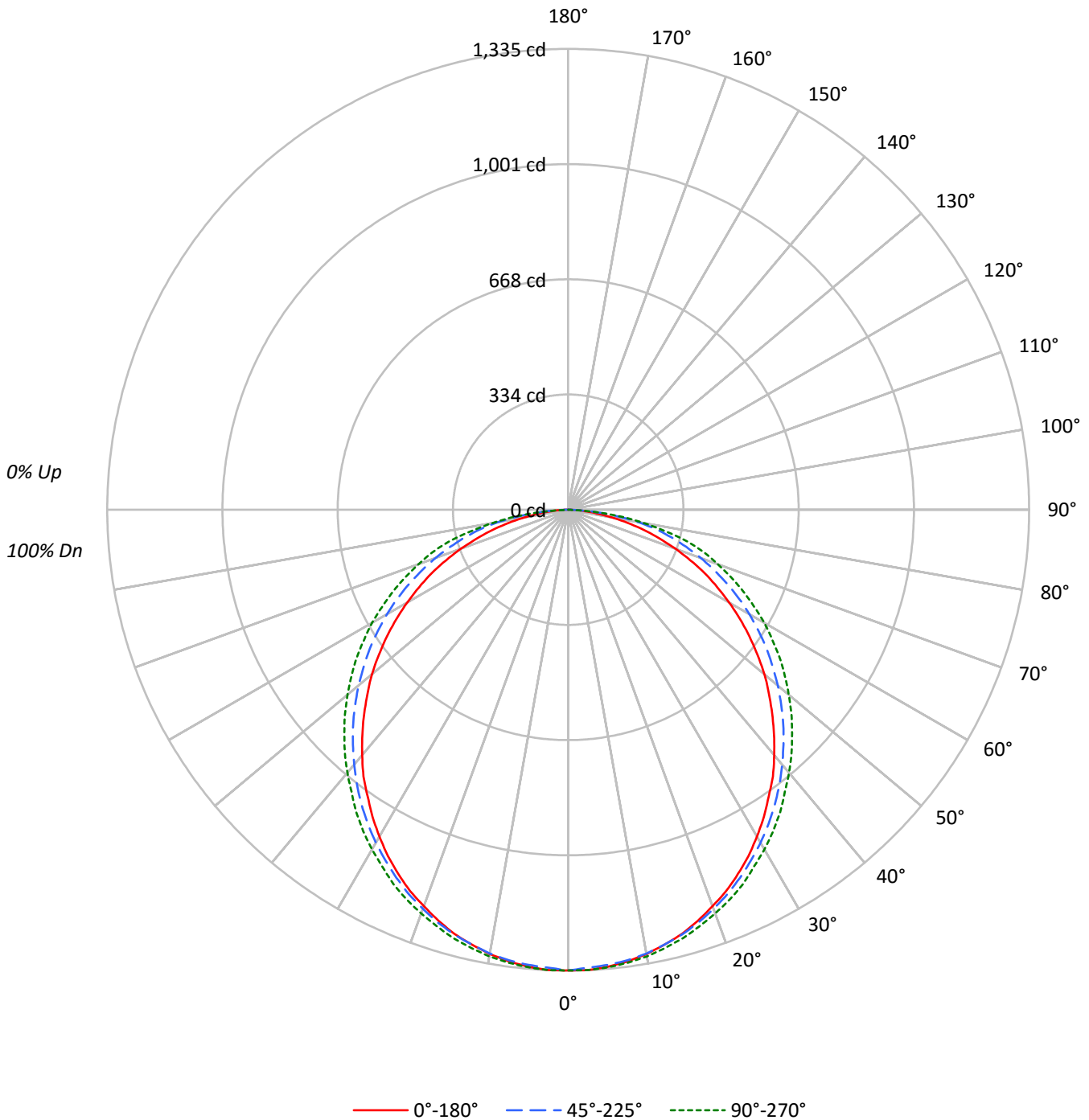
Lumens per Lamp: N/A
Luminaire Lumens: 3885.0 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33.5
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	90	83	77	96	88	81	76	84	79	74		81	76	72		78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62		71	65	61		68	64	60	57
4	82	69	60	54	79	68	60	53	65	58	52		63	57	52		61	55	51	49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	39		51	44	39		50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31		43	36	31		42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25		36	30	25		36	30	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1796	1796	1796
5°	1795	1788	1797
10°	1786	1784	1795
15°	1772	1774	1790
20°	1750	1762	1782
25°	1728	1747	1778
30°	1699	1731	1765
35°	1664	1714	1757
40°	1630	1694	1747
45°	1589	1676	1745
50°	1554	1658	1746
55°	1504	1644	1754
60°	1449	1632	1766
65°	1391	1617	1780
70°	1299	1605	1812
75°	1183	1608	1868
80°	979	1591	1720
85°	750	1264	1221



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.2	3.2
10°-20°	360.3	9.3
20°-30°	543.6	14.0
30°-40°	652.6	16.8
40°-50°	678.7	17.5
50°-60°	624.2	16.1
60°-70°	497.5	12.8
70°-80°	315.2	8.1
80°-90°	86.7	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°	1030.1	26.5
0°-40°	1682.7	43.3
0°-60°	2985.6	76.8
0°-90°	3885.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3885.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1335	1335	1335	1335	1335	
5°	1329	1329	1324	1331	1331	126
15°	1272	1272	1274	1283	1285	359
25°	1164	1170	1177	1193	1197	536
35°	1013	1024	1043	1063	1070	634
45°	835	853	881	909	917	645
55°	641	662	701	735	748	573
65°	437	459	508	547	559	431
75°	228	257	309	348	359	239
85°	49	69	82	80	79	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1334.7	1334.7	1334.7	1334.7	1334.7
2.5°	1334.7	1334.7	1327.8	1334.7	1334.7
5°	1329.2	1329.2	1323.6	1330.6	1330.6
7.5°	1319.5	1320.8	1316.7	1323.6	1323.6
10°	1307.0	1308.4	1305.6	1313.9	1313.9
12.5°	1290.3	1291.7	1290.3	1300.0	1300.0
15°	1272.3	1272.3	1273.7	1283.4	1284.8
17.5°	1248.7	1251.5	1254.2	1265.3	1265.3
20°	1222.3	1226.5	1230.7	1244.5	1244.5
22.5°	1196.0	1200.1	1205.7	1219.6	1222.3
25°	1164.1	1169.6	1176.6	1193.2	1197.4
27.5°	1130.8	1134.9	1146.0	1164.1	1165.5
30°	1093.3	1100.2	1114.1	1132.2	1136.3
32.5°	1054.5	1064.2	1079.4	1100.2	1104.4
35°	1012.8	1023.9	1043.4	1062.8	1069.7
37.5°	974.0	982.3	1004.5	1026.7	1030.9
40°	928.2	940.7	964.3	989.2	994.8
42.5°	882.4	896.3	922.6	947.6	957.3
45°	835.2	853.3	881.0	908.8	917.1
47.5°	788.1	807.5	836.6	867.2	876.9
50°	742.3	760.3	792.2	824.1	833.9
52.5°	690.9	711.8	746.4	781.1	790.8
55°	641.0	661.8	700.7	735.3	747.8
57.5°	589.7	613.2	653.5	689.6	700.7
60°	538.3	563.3	606.3	642.4	656.3
62.5°	487.0	510.6	557.8	593.8	606.3
65°	437.0	459.2	507.8	546.7	559.1
67.5°	382.9	407.9	457.9	498.1	509.2
70°	330.2	355.2	407.9	449.5	460.6
72.5°	276.1	305.2	358.0	398.2	413.5
75°	227.5	256.7	309.4	348.2	359.3
77.5°	176.2	205.3	259.5	287.2	288.6
80°	126.3	159.6	205.3	216.4	222.0
82.5°	83.2	115.2	141.5	155.4	155.4
85°	48.6	69.4	81.9	80.5	79.1
87.5°	18.0	23.6	19.4	13.9	9.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)