

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: P302235

Luminaire Tested: **RX-WO-45H830-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302235
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: RX-WO-45H830-UNV-24-STD
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.
ROUND LENS, HIGH PERFORMANCE LUMEN PACKAGE.
Light Source: (252)3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

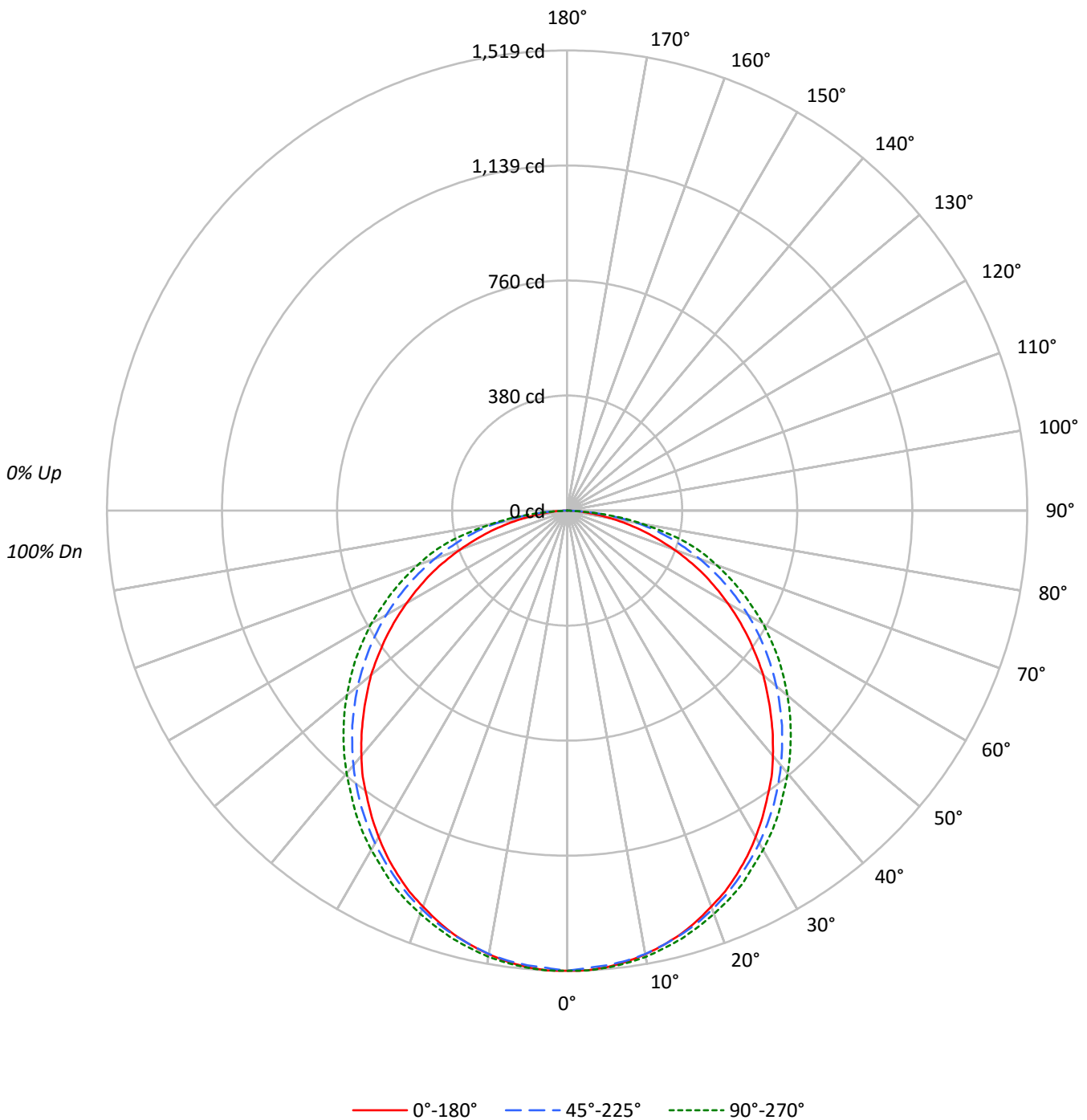
Lumens per Lamp: N/A
Luminaire Lumens: 4422.1 lumens
Efficiency: N/A
Efficacy: 132.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2044	2044	2044
5°	2043	2035	2046
10°	2033	2030	2043
15°	2017	2020	2037
20°	1992	2006	2028
25°	1967	1988	2023
30°	1933	1970	2009
35°	1894	1951	2000
40°	1856	1928	1989
45°	1809	1908	1986
50°	1769	1888	1987
55°	1711	1871	1997
60°	1649	1857	2010
65°	1584	1840	2026
70°	1479	1827	2063
75°	1346	1831	2126
80°	1113	1811	1958
85°	854	1439	1389



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.7	3.2
10°-20°	410.2	9.3
20°-30°	618.7	14.0
30°-40°	742.8	16.8
40°-50°	772.5	17.5
50°-60°	710.5	16.1
60°-70°	566.3	12.8
70°-80°	358.8	8.1
80°-90°	98.7	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°	1172.5	26.5
0°-40°	1915.4	43.3
0°-60°	3398.4	76.8
0°-90°	4422.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4422.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1519	1519	1519	1519	1519	
5°	1513	1513	1507	1514	1514	144
15°	1448	1448	1450	1461	1462	408
25°	1325	1331	1339	1358	1363	610
35°	1153	1166	1188	1210	1218	722
45°	951	971	1003	1034	1044	734
55°	730	753	798	837	851	652
65°	498	523	578	622	636	490
75°	259	292	352	396	409	273
85°	55	79	93	92	90	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1519.2	1519.2	1519.2	1519.2	1519.2
2.5°	1519.2	1519.2	1511.3	1519.2	1519.2
5°	1512.9	1512.9	1506.6	1514.5	1514.5
7.5°	1501.9	1503.4	1498.7	1506.6	1506.6
10°	1487.7	1489.2	1486.1	1495.6	1495.6
12.5°	1468.7	1470.3	1468.7	1479.8	1479.8
15°	1448.2	1448.2	1449.8	1460.8	1462.4
17.5°	1421.3	1424.5	1427.6	1440.3	1440.3
20°	1391.3	1396.1	1400.8	1416.6	1416.6
22.5°	1361.3	1366.1	1372.4	1388.2	1391.3
25°	1325.0	1331.3	1339.2	1358.2	1362.9
27.5°	1287.1	1291.8	1304.5	1325.0	1326.6
30°	1244.4	1252.3	1268.1	1288.7	1293.4
32.5°	1200.2	1211.3	1228.7	1252.3	1257.1
35°	1152.9	1165.5	1187.6	1209.7	1217.6
37.5°	1108.6	1118.1	1143.4	1168.6	1173.4
40°	1056.5	1070.7	1097.6	1126.0	1132.3
42.5°	1004.4	1020.2	1050.2	1078.6	1089.7
45°	950.7	971.2	1002.8	1034.4	1043.9
47.5°	897.0	919.1	952.3	987.0	998.1
50°	844.9	865.4	901.8	938.1	949.1
52.5°	786.5	810.2	849.6	889.1	900.2
55°	729.6	753.3	797.5	837.0	851.2
57.5°	671.2	698.0	743.8	784.9	797.5
60°	612.7	641.2	690.1	731.2	747.0
62.5°	554.3	581.2	634.9	675.9	690.1
65°	497.5	522.7	578.0	622.2	636.4
67.5°	435.9	464.3	521.2	567.0	579.6
70°	375.9	404.3	464.3	511.7	524.3
72.5°	314.3	347.4	407.4	453.2	470.6
75°	259.0	292.2	352.2	396.4	409.0
77.5°	200.6	233.7	295.3	326.9	328.5
80°	143.7	181.6	233.7	246.4	252.7
82.5°	94.8	131.1	161.1	176.9	176.9
85°	55.3	79.0	93.2	91.6	90.0
87.5°	20.5	26.8	22.1	15.8	11.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)