

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: P302290

Luminaire Tested: **RX-WO-70H940-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302290
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-70H940-UNV-24-STD
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.
ROUND LENS, HIGH PERFORMANCE LUMEN PACKAGE.
Light Source: (588)4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

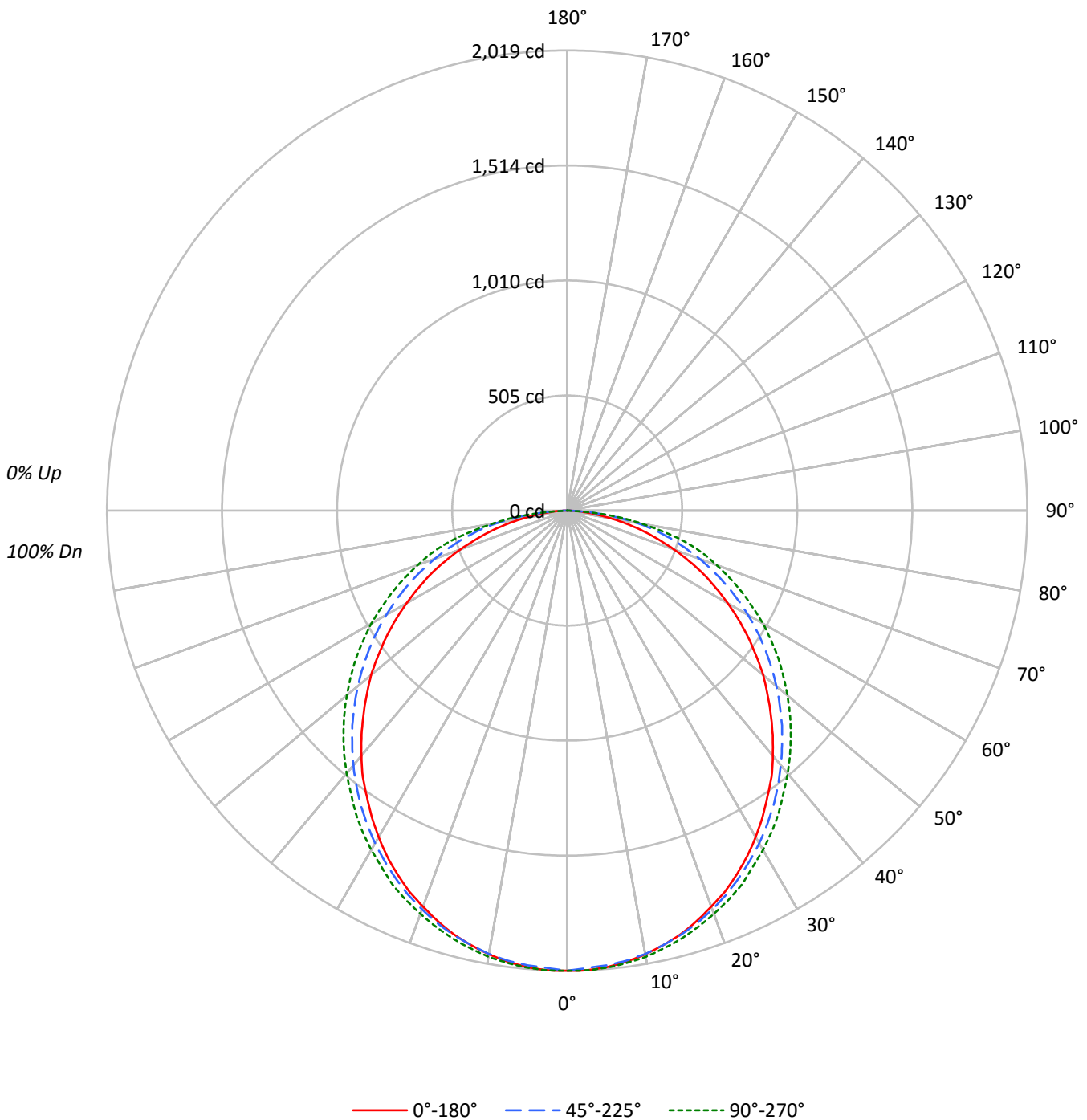
Lumens per Lamp: N/A
Luminaire Lumens: 5877.5 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 49.9
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°	2717	2717	2717
5°	2716	2704	2719
10°	2701	2699	2716
15°	2681	2684	2707
20°	2648	2666	2696
25°	2614	2643	2689
30°	2570	2619	2671
35°	2517	2593	2658
40°	2466	2562	2643
45°	2404	2536	2640
50°	2351	2509	2641
55°	2275	2487	2654
60°	2192	2468	2672
65°	2105	2446	2693
70°	1965	2428	2742
75°	1789	2433	2826
80°	1480	2407	2602
85°	1135	1911	1846



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.9	3.2
10°-20°	545.1	9.3
20°-30°	822.4	14.0
30°-40°	987.3	16.8
40°-50°	1026.8	17.5
50°-60°	944.3	16.1
60°-70°	752.6	12.8
70°-80°	476.9	8.1
80°-90°	131.2	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°	1558.4	26.5
0°-40°	2545.7	43.3
0°-60°	4516.8	76.8
0°-90°	5877.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5877.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2019	2019	2019	2019	2019	
5°	2011	2011	2002	2013	2013	191
15°	1925	1925	1927	1942	1944	542
25°	1761	1770	1780	1805	1811	811
35°	1532	1549	1578	1608	1618	960
45°	1264	1291	1333	1375	1387	976
55°	970	1001	1060	1112	1131	867
65°	661	695	768	827	846	652
75°	344	388	468	527	544	362
85°	74	105	124	122	120	88
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2019.2	2019.2	2019.2	2019.2	2019.2
2.5°	2019.2	2019.2	2008.7	2019.2	2019.2
5°	2010.8	2010.8	2002.4	2012.9	2012.9
7.5°	1996.2	1998.3	1992.0	2002.4	2002.4
10°	1977.3	1979.4	1975.2	1987.8	1987.8
12.5°	1952.1	1954.2	1952.1	1966.8	1966.8
15°	1924.8	1924.8	1926.9	1941.6	1943.7
17.5°	1889.1	1893.3	1897.5	1914.3	1914.3
20°	1849.2	1855.5	1861.8	1882.8	1882.8
22.5°	1809.3	1815.6	1824.0	1845.0	1849.2
25°	1761.1	1769.5	1780.0	1805.1	1811.4
27.5°	1710.7	1717.0	1733.8	1761.1	1763.2
30°	1654.0	1664.5	1685.5	1712.8	1719.1
32.5°	1595.2	1609.9	1633.0	1664.5	1670.8
35°	1532.3	1549.1	1578.5	1607.8	1618.3
37.5°	1473.5	1486.1	1519.7	1553.3	1559.6
40°	1404.2	1423.1	1458.8	1496.6	1505.0
42.5°	1335.0	1356.0	1395.8	1433.6	1448.3
45°	1263.6	1290.9	1332.9	1374.8	1387.4
47.5°	1192.2	1221.6	1265.7	1311.9	1326.6
50°	1123.0	1150.3	1198.5	1246.8	1261.5
52.5°	1045.3	1076.8	1129.3	1181.7	1196.4
55°	969.7	1001.2	1060.0	1112.5	1131.4
57.5°	892.1	927.8	988.6	1043.2	1060.0
60°	814.4	852.2	917.3	971.8	992.8
62.5°	736.8	772.4	843.8	898.4	917.3
65°	661.2	694.8	768.2	827.0	845.9
67.5°	579.3	617.1	692.7	753.5	770.3
70°	499.6	537.3	617.1	680.1	696.9
72.5°	417.7	461.8	541.5	602.4	625.5
75°	344.2	388.3	468.1	526.8	543.6
77.5°	266.6	310.7	392.5	434.5	436.6
80°	191.0	241.4	310.7	327.4	335.8
82.5°	125.9	174.2	214.1	235.1	235.1
85°	73.5	105.0	123.8	121.7	119.6
87.5°	27.3	35.7	29.4	21.0	14.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)