

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: P302260

Luminaire Tested: **RX-WO-70H840-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302260
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-70H840-UNV-24-STD
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.
ROUND LENS, HIGH PERFORMANCE LUMEN PACKAGE.
Light Source: (588)4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

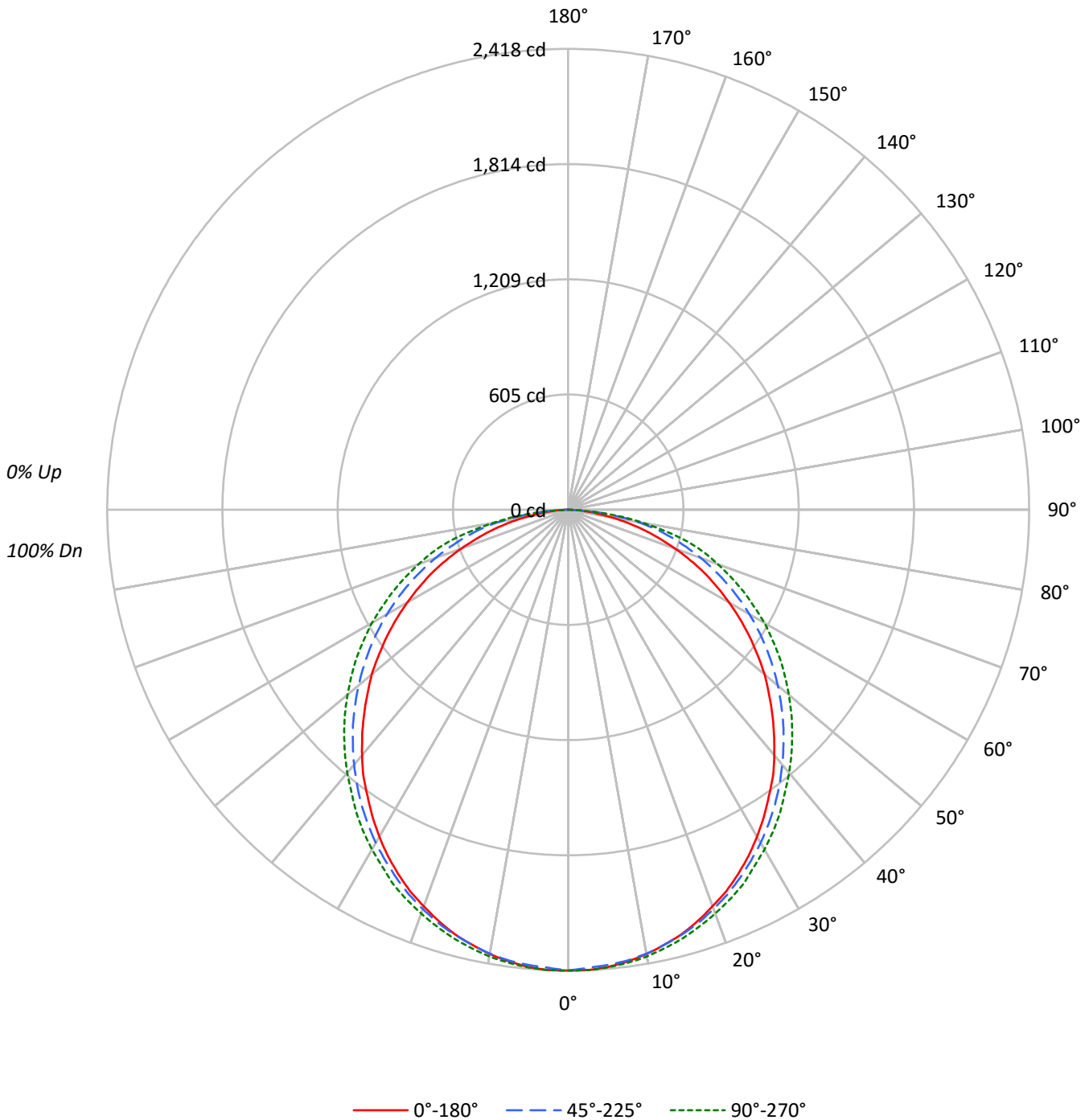
Lumens per Lamp: N/A
Luminaire Lumens: 7038.5 lumens
Efficiency: N/A
Efficacy: 141.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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°	3254	3254	3254
5°	3252	3239	3256
10°	3235	3232	3252
15°	3211	3214	3242
20°	3171	3192	3228
25°	3131	3165	3221
30°	3077	3136	3198
35°	3014	3105	3183
40°	2954	3068	3166
45°	2879	3037	3162
50°	2815	3004	3162
55°	2724	2978	3178
60°	2625	2956	3199
65°	2521	2929	3225
70°	2353	2907	3283
75°	2143	2914	3384
80°	1772	2882	3116
85°	1359	2289	2212



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.6	3.2
10°-20°	652.8	9.3
20°-30°	984.8	14.0
30°-40°	1182.3	16.8
40°-50°	1229.6	17.5
50°-60°	1130.9	16.1
60°-70°	901.3	12.8
70°-80°	571.1	8.1
80°-90°	157.1	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°	1866.3	26.5
0°-40°	3048.6	43.3
0°-60°	5409.1	76.8
0°-90°	7038.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7038.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2418	2418	2418	2418	2418	
5°	2408	2408	2398	2411	2411	229
15°	2305	2305	2308	2325	2328	650
25°	2109	2119	2132	2162	2169	971
35°	1835	1855	1890	1925	1938	1149
45°	1513	1546	1596	1646	1662	1168
55°	1161	1199	1269	1332	1355	1038
65°	792	832	920	990	1013	780
75°	412	465	560	631	651	434
85°	88	126	148	146	143	105
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2418.1	2418.1	2418.1	2418.1	2418.1
2.5°	2418.1	2418.1	2405.5	2418.1	2418.1
5°	2408.1	2408.1	2398.0	2410.6	2410.6
7.5°	2390.5	2393.0	2385.4	2398.0	2398.0
10°	2367.8	2370.4	2365.3	2380.4	2380.4
12.5°	2337.7	2340.2	2337.7	2355.3	2355.3
15°	2305.0	2305.0	2307.5	2325.1	2327.6
17.5°	2262.3	2267.3	2272.3	2292.4	2292.4
20°	2214.5	2222.1	2229.6	2254.7	2254.7
22.5°	2166.8	2174.3	2184.3	2209.5	2214.5
25°	2108.9	2119.0	2131.6	2161.7	2169.3
27.5°	2048.6	2056.2	2076.3	2108.9	2111.5
30°	1980.7	1993.3	2018.4	2051.1	2058.7
32.5°	1910.4	1928.0	1955.6	1993.3	2000.9
35°	1835.0	1855.1	1890.3	1925.4	1938.0
37.5°	1764.6	1779.7	1819.9	1860.1	1867.6
40°	1681.6	1704.2	1747.0	1792.2	1802.3
42.5°	1598.7	1623.8	1671.6	1716.8	1734.4
45°	1513.2	1545.9	1596.2	1646.4	1661.5
47.5°	1427.7	1462.9	1515.7	1571.0	1588.6
50°	1344.8	1377.5	1435.3	1493.1	1510.7
52.5°	1251.8	1289.5	1352.3	1415.2	1432.8
55°	1161.3	1199.0	1269.4	1332.2	1354.8
57.5°	1068.3	1111.0	1183.9	1249.3	1269.4
60°	975.3	1020.5	1098.5	1163.8	1188.9
62.5°	882.3	925.0	1010.5	1075.8	1098.5
65°	791.8	832.0	920.0	990.4	1013.0
67.5°	693.8	739.0	829.5	902.4	922.5
70°	598.2	643.5	739.0	814.4	834.5
72.5°	500.2	553.0	648.5	721.4	749.1
75°	412.2	465.0	560.5	630.9	651.0
77.5°	319.2	372.0	470.0	520.3	522.8
80°	228.7	289.1	372.0	392.1	402.2
82.5°	150.8	208.6	256.4	281.5	281.5
85°	88.0	125.7	148.3	145.8	143.3
87.5°	32.7	42.7	35.2	25.1	17.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)