

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P217882

Luminaire Tested: **R2X-WO-5L35-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P217882
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35828-R2)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R2X-WO-5L35-LD5-UNV-14
Description: CLASS R2X 1X4 RECESSED LED LUMINAIRE WITH A OPAL ROUND LENS
LIGHT LEVEL 5, 3500K CCT.
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6535.0 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

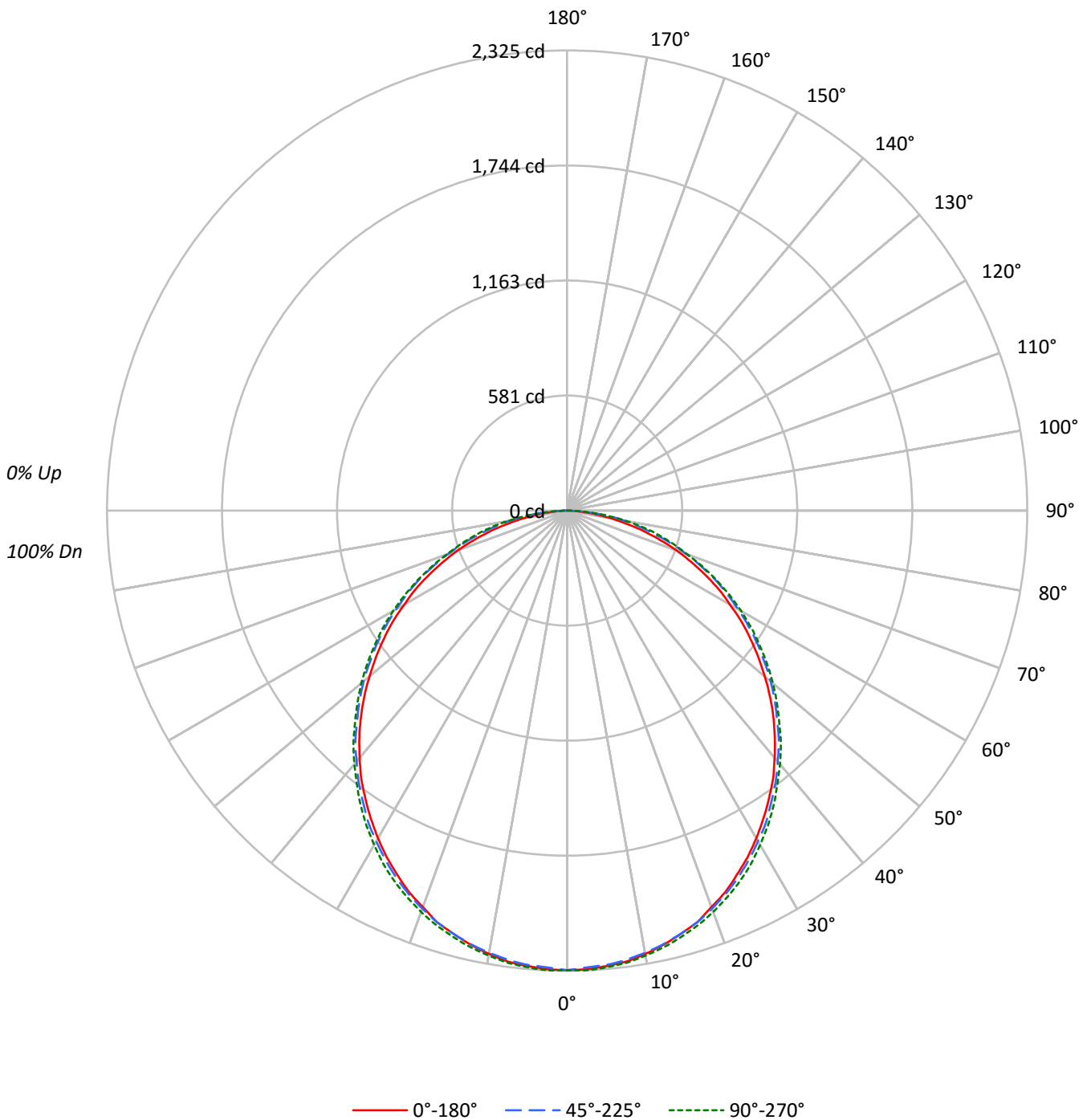
Input Watts (W): 58.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	88	86	83
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	65	60	58
4	82	70	61	54	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6249	6249	6249
5°	6240	6224	6256
10°	6215	6199	6239
15°	6171	6171	6212
20°	6104	6130	6181
25°	6028	6073	6135
30°	5939	5994	6059
35°	5839	5907	5976
40°	5731	5814	5877
45°	5608	5710	5767
50°	5459	5621	5683
55°	5308	5503	5573
60°	5111	5367	5464
65°	4910	5251	5308
70°	4615	5036	5083
75°	4147	4736	5015
80°	3414	4520	4706
85°	2390	3952	3859



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.6	3.4
10°-20°	626.8	9.6
20°-30°	944.1	14.4
30°-40°	1126.7	17.2
40°-50°	1157.7	17.7
50°-60°	1044.3	16.0
60°-70°	804.4	12.3
70°-80°	476.0	7.3
80°-90°	135.3	2.1
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°	1790.5	27.4
0°-40°	2917.2	44.6
0°-60°	5119.2	78.3
0°-90°	6535.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6535.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2322	2322	2322	2322	2322	
5°	2310	2313	2304	2316	2316	219
15°	2215	2218	2215	2230	2230	625
25°	2030	2042	2045	2063	2066	936
35°	1777	1789	1798	1816	1819	1112
45°	1474	1486	1500	1515	1515	1136
55°	1131	1152	1173	1188	1188	1011
65°	771	795	825	836	834	763
75°	399	429	456	473	482	423
85°	77	110	128	131	125	99
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2322.1	2322.1	2322.1	2322.1	2322.1
2.5°	2319.1	2322.1	2310.2	2325.1	2325.1
5°	2310.2	2313.2	2304.2	2316.1	2316.1
7.5°	2298.3	2298.3	2289.3	2304.2	2304.2
10°	2274.5	2277.4	2268.5	2283.4	2283.4
12.5°	2247.7	2250.6	2244.7	2259.6	2259.6
15°	2214.9	2217.9	2214.9	2229.8	2229.8
17.5°	2182.2	2182.2	2182.2	2194.1	2197.0
20°	2131.6	2140.5	2140.5	2155.4	2158.3
22.5°	2086.9	2092.9	2095.8	2113.7	2113.7
25°	2030.3	2042.2	2045.2	2063.1	2066.1
27.5°	1973.8	1985.7	1988.7	2009.5	2012.5
30°	1911.3	1923.2	1929.1	1950.0	1950.0
32.5°	1845.8	1860.6	1869.6	1884.5	1887.4
35°	1777.3	1789.2	1798.1	1816.0	1819.0
37.5°	1708.8	1717.7	1729.7	1747.5	1744.5
40°	1631.4	1643.3	1655.2	1673.1	1673.1
42.5°	1554.0	1571.9	1583.8	1595.7	1598.7
45°	1473.6	1485.5	1500.4	1515.3	1515.3
47.5°	1390.3	1405.2	1423.0	1434.9	1437.9
50°	1303.9	1321.8	1342.6	1357.5	1357.5
52.5°	1217.6	1235.5	1256.3	1274.2	1274.2
55°	1131.3	1152.1	1173.0	1187.8	1187.8
57.5°	1044.9	1065.8	1086.6	1104.5	1104.5
60°	949.7	976.5	997.3	1012.2	1015.2
62.5°	866.3	884.2	911.0	925.9	925.9
65°	771.1	794.9	824.6	836.5	833.6
67.5°	678.8	699.6	729.4	750.2	741.3
70°	586.5	607.3	640.1	646.0	646.0
72.5°	491.2	521.0	550.8	556.7	562.7
75°	398.9	428.7	455.5	473.3	482.3
77.5°	309.6	339.4	372.1	390.0	395.9
80°	220.3	256.0	291.7	303.7	303.7
82.5°	145.9	175.6	208.4	211.4	214.3
85°	77.4	110.2	128.0	131.0	125.0
87.5°	29.8	41.7	50.6	53.6	53.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)