

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: P217883

Luminaire Tested: **R2X-WO-1L40-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P217883
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-1L40-LD5-UNV-14
Description: CLASS R2X 1X4 RECESSED LED LUMINAIRE WITH A OPAL ROUND LENS
LIGHT LEVEL 1, 4000K CCT.
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2253.4 lumens
Efficiency: N/A
Efficacy: 135.7 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

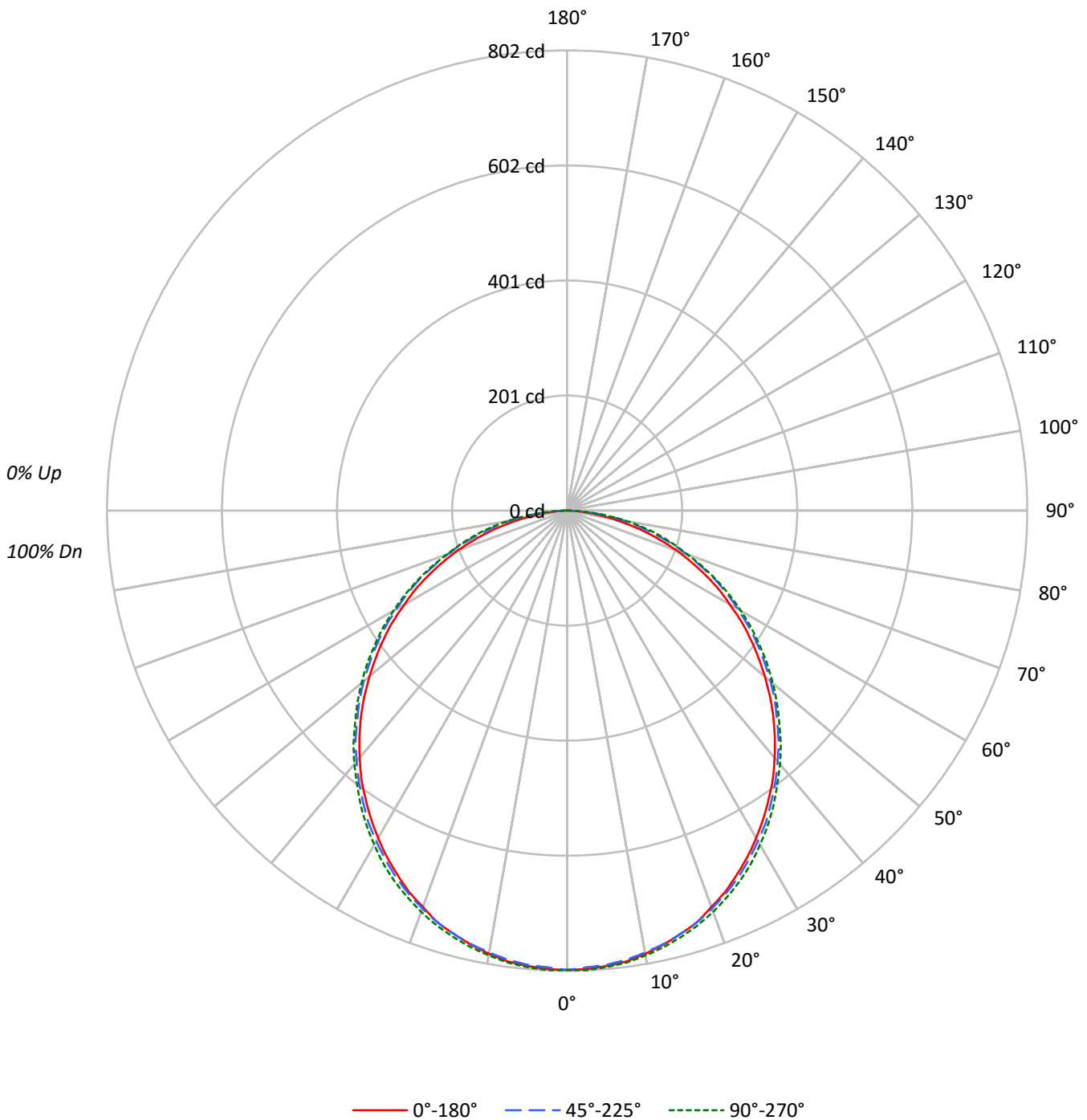
Input Watts (W): 16.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2155	2155	2155
5°	2152	2146	2157
10°	2143	2137	2151
15°	2128	2128	2142
20°	2105	2114	2131
25°	2079	2094	2115
30°	2048	2067	2089
35°	2013	2037	2060
40°	1976	2005	2027
45°	1934	1969	1988
50°	1882	1938	1960
55°	1830	1897	1922
60°	1763	1851	1884
65°	1693	1810	1830
70°	1591	1736	1753
75°	1431	1633	1729
80°	1178	1559	1623
85°	824	1362	1331



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.7	3.4
10°-20°	216.1	9.6
20°-30°	325.5	14.4
30°-40°	388.5	17.2
40°-50°	399.2	17.7
50°-60°	360.1	16.0
60°-70°	277.4	12.3
70°-80°	164.1	7.3
80°-90°	46.7	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°	617.4	27.4
0°-40°	1005.9	44.6
0°-60°	1765.2	78.3
0°-90°	2253.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2253.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	801	801	801	801	801	
5°	797	798	794	799	799	76
15°	764	765	764	769	769	216
25°	700	704	705	711	712	323
35°	613	617	620	626	627	383
45°	508	512	517	522	522	392
55°	390	397	404	410	410	349
65°	266	274	284	288	287	263
75°	138	148	157	163	166	146
85°	27	38	44	45	43	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	800.7	800.7	800.7	800.7	800.7
2.5°	799.7	800.7	796.6	801.7	801.7
5°	796.6	797.6	794.5	798.6	798.6
7.5°	792.5	792.5	789.4	794.5	794.5
10°	784.3	785.3	782.2	787.3	787.3
12.5°	775.0	776.0	774.0	779.1	779.1
15°	763.7	764.8	763.7	768.9	768.9
17.5°	752.4	752.4	752.4	756.5	757.6
20°	735.0	738.1	738.1	743.2	744.2
22.5°	719.6	721.6	722.7	728.8	728.8
25°	700.1	704.2	705.2	711.4	712.4
27.5°	680.6	684.7	685.7	692.9	693.9
30°	659.0	663.1	665.2	672.4	672.4
32.5°	636.4	641.6	644.7	649.8	650.8
35°	612.8	616.9	620.0	626.2	627.2
37.5°	589.2	592.3	596.4	602.6	601.5
40°	562.5	566.6	570.7	576.9	576.9
42.5°	535.8	542.0	546.1	550.2	551.2
45°	508.1	512.2	517.4	522.5	522.5
47.5°	479.4	484.5	490.7	494.8	495.8
50°	449.6	455.8	463.0	468.1	468.1
52.5°	419.8	426.0	433.2	439.4	439.4
55°	390.1	397.3	404.4	409.6	409.6
57.5°	360.3	367.5	374.7	380.8	380.8
60°	327.5	336.7	343.9	349.0	350.0
62.5°	298.7	304.9	314.1	319.2	319.2
65°	265.9	274.1	284.3	288.5	287.4
67.5°	234.0	241.2	251.5	258.7	255.6
70°	202.2	209.4	220.7	222.8	222.8
72.5°	169.4	179.6	189.9	192.0	194.0
75°	137.6	147.8	157.1	163.2	166.3
77.5°	106.8	117.0	128.3	134.5	136.5
80°	76.0	88.3	100.6	104.7	104.7
82.5°	50.3	60.6	71.9	72.9	73.9
85°	26.7	38.0	44.1	45.2	43.1
87.5°	10.3	14.4	17.5	18.5	18.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)