

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: P217881

Luminaire Tested: **R2X-WO-4L35-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P217881
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-4L35-LD5-UNV-14
Description: CLASS R2X 1X4 RECESSED LED LUMINAIRE WITH A OPAL ROUND LENS
LIGHT LEVEL 4, 3500K CCT.
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5482.4 lumens
Efficiency: N/A
Efficacy: 118.2 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

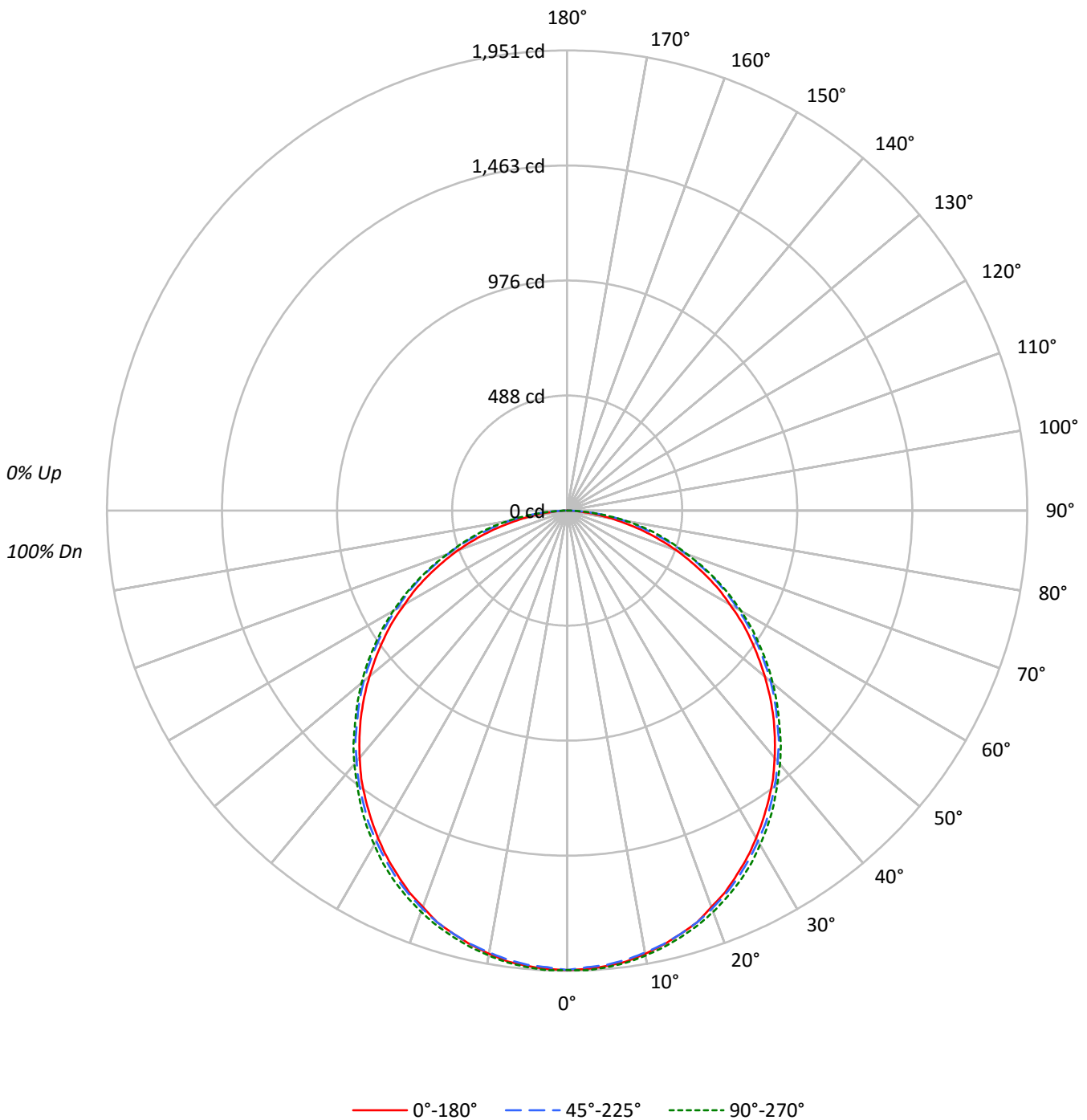
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5242	5242	5242
5°	5235	5222	5249
10°	5214	5200	5234
15°	5177	5177	5212
20°	5121	5142	5185
25°	5057	5094	5146
30°	4982	5029	5083
35°	4898	4956	5013
40°	4808	4878	4931
45°	4705	4791	4838
50°	4580	4716	4768
55°	4453	4617	4675
60°	4288	4503	4584
65°	4119	4405	4453
70°	3871	4225	4264
75°	3480	3973	4207
80°	2864	3794	3947
85°	2004	3316	3239



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.2	3.4
10°-20°	525.8	9.6
20°-30°	792.1	14.4
30°-40°	945.2	17.2
40°-50°	971.3	17.7
50°-60°	876.1	16.0
60°-70°	674.9	12.3
70°-80°	399.3	7.3
80°-90°	113.5	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°	1502.1	27.4
0°-40°	2447.3	44.6
0°-60°	4294.7	78.3
0°-90°	5482.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5482.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1948	1948	1948	1948	1948	
5°	1938	1941	1933	1943	1943	184
15°	1858	1861	1858	1871	1871	524
25°	1703	1713	1716	1731	1733	785
35°	1491	1501	1508	1524	1526	933
45°	1236	1246	1259	1271	1271	953
55°	949	966	984	996	996	848
65°	647	667	692	702	699	640
75°	335	360	382	397	405	355
85°	65	92	107	110	105	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1948.1	1948.1	1948.1	1948.1	1948.1
2.5°	1945.6	1948.1	1938.1	1950.6	1950.6
5°	1938.1	1940.6	1933.1	1943.1	1943.1
7.5°	1928.1	1928.1	1920.6	1933.1	1933.1
10°	1908.1	1910.6	1903.1	1915.6	1915.6
12.5°	1885.6	1888.1	1883.1	1895.6	1895.6
15°	1858.2	1860.7	1858.2	1870.7	1870.7
17.5°	1830.7	1830.7	1830.7	1840.7	1843.2
20°	1788.2	1795.7	1795.7	1808.2	1810.7
22.5°	1750.8	1755.8	1758.3	1773.3	1773.3
25°	1703.3	1713.3	1715.8	1730.8	1733.3
27.5°	1655.9	1665.9	1668.4	1685.8	1688.3
30°	1603.4	1613.4	1618.4	1635.9	1635.9
32.5°	1548.5	1561.0	1568.5	1580.9	1583.4
35°	1491.0	1501.0	1508.5	1523.5	1526.0
37.5°	1433.6	1441.1	1451.1	1466.1	1463.6
40°	1368.7	1378.6	1388.6	1403.6	1403.6
42.5°	1303.7	1318.7	1328.7	1338.7	1341.2
45°	1236.3	1246.3	1258.8	1271.2	1271.2
47.5°	1166.4	1178.8	1193.8	1203.8	1206.3
50°	1093.9	1108.9	1126.4	1138.9	1138.9
52.5°	1021.5	1036.5	1054.0	1068.9	1068.9
55°	949.1	966.5	984.0	996.5	996.5
57.5°	876.6	894.1	911.6	926.6	926.6
60°	796.7	819.2	836.7	849.2	851.7
62.5°	726.8	741.8	764.2	776.7	776.7
65°	646.9	666.8	691.8	701.8	699.3
67.5°	569.4	586.9	611.9	629.4	621.9
70°	492.0	509.5	537.0	542.0	542.0
72.5°	412.1	437.1	462.0	467.0	472.0
75°	334.7	359.6	382.1	397.1	404.6
77.5°	259.7	284.7	312.2	327.2	332.2
80°	184.8	214.8	244.8	254.7	254.7
82.5°	122.4	147.4	174.8	177.3	179.8
85°	64.9	92.4	107.4	109.9	104.9
87.5°	25.0	35.0	42.5	45.0	45.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)