

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: P217912

Luminaire Tested: **R2X-WO-4L35-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P217912
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35823-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-24
Description: CLASS R2X 2X4 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

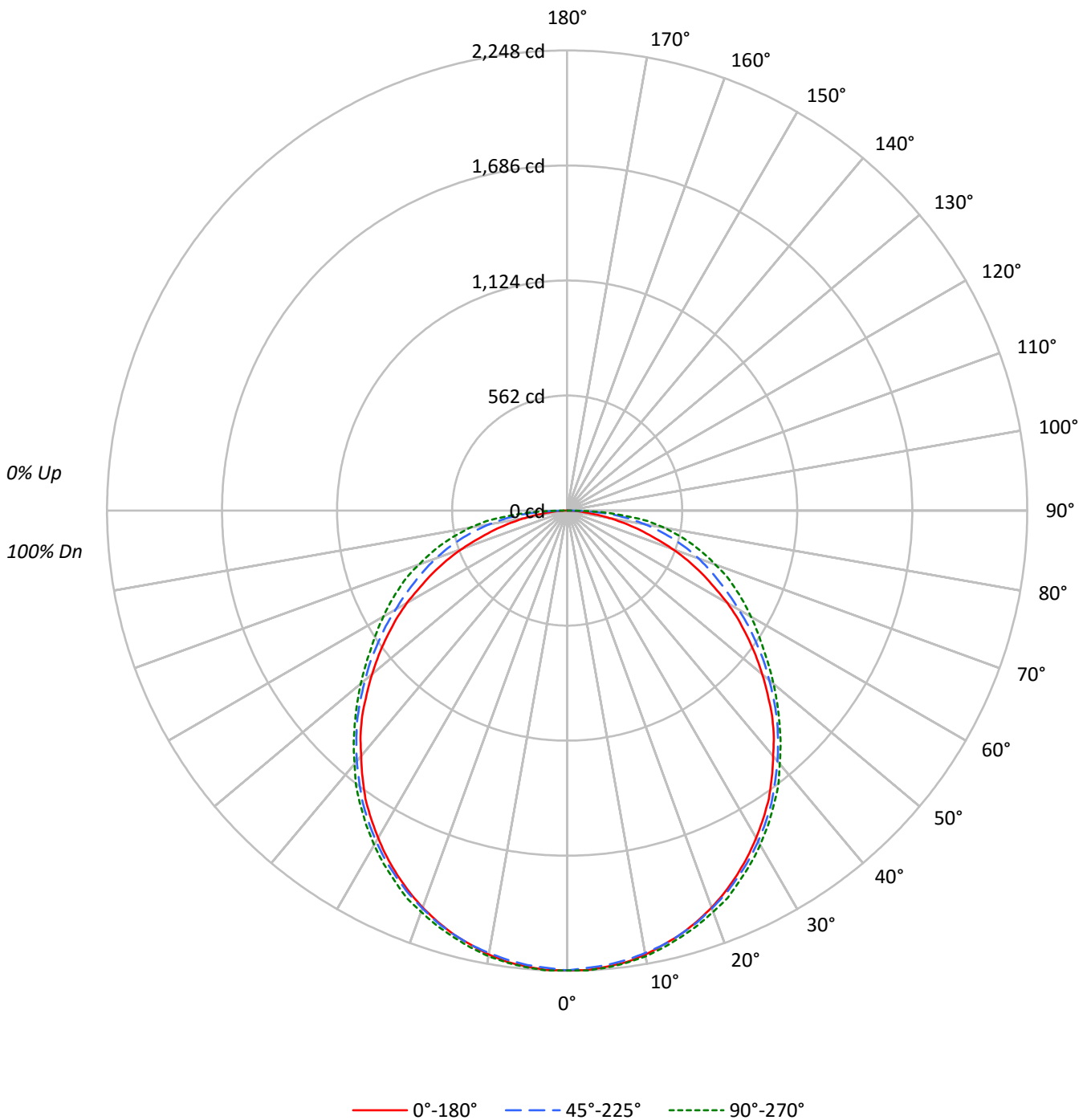
Lumens per Lamp: N/A
Luminaire Lumens: 6518.8 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 57.1
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	98	94	105	100	96	92	96	93	90	92	89	87	89	86	84	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68
3	89	78	70	63	86	76	69	62	73	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	50	48
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	54	49	44	42
6	69	55	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	36
7	64	50	41	35	62	49	41	35	48	40	35	46	40	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	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	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3022	3022	3022
5°	3021	3010	3026
10°	3010	2999	3020
15°	2986	2986	3002
20°	2956	2961	2987
25°	2915	2932	2962
30°	2869	2900	2930
35°	2822	2861	2890
40°	2750	2809	2837
45°	2693	2760	2790
50°	2606	2697	2755
55°	2521	2646	2739
60°	2434	2604	2791
65°	2312	2609	2892
70°	2149	2686	3029
75°	1924	2798	3282
80°	1610	2990	3726
85°	1161	3423	4247



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.5	3.3
10°-20°	606.3	9.3
20°-30°	912.4	14.0
30°-40°	1088.3	16.7
40°-50°	1115.7	17.1
50°-60°	1010.5	15.5
60°-70°	812.9	12.5
70°-80°	546.7	8.4
80°-90°	213.6	3.3
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°	1731.2	26.6
0°-40°	2819.5	43.3
0°-60°	4945.6	75.9
0°-90°	6518.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6518.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2246	2246	2246	2246	2246	
5°	2236	2236	2228	2240	2240	212
15°	2143	2147	2143	2157	2155	604
25°	1963	1969	1975	1995	1995	905
35°	1718	1726	1742	1756	1759	1072
45°	1415	1429	1451	1465	1466	1089
55°	1075	1102	1128	1160	1168	962
65°	726	756	819	893	908	717
75°	370	426	538	606	631	392
85°	75	144	222	259	275	93
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2246.3	2246.3	2246.3	2246.3	2246.3
2.5°	2246.3	2246.3	2236.4	2248.3	2248.3
5°	2236.4	2236.4	2228.5	2240.4	2240.4
7.5°	2224.5	2224.5	2214.6	2228.5	2228.5
10°	2202.8	2202.8	2194.9	2210.7	2210.7
12.5°	2173.1	2179.0	2173.1	2186.9	2185.0
15°	2143.4	2147.4	2143.4	2157.2	2155.3
17.5°	2105.8	2109.7	2109.7	2123.6	2123.6
20°	2064.2	2068.2	2068.2	2086.0	2086.0
22.5°	2016.7	2022.7	2024.6	2044.4	2048.4
25°	1963.3	1969.2	1975.2	1995.0	1995.0
27.5°	1907.9	1913.8	1923.7	1943.5	1943.5
30°	1846.5	1856.4	1866.3	1888.1	1886.1
32.5°	1783.2	1793.1	1805.0	1822.8	1824.8
35°	1717.9	1725.8	1741.6	1755.5	1759.4
37.5°	1642.7	1654.5	1668.4	1692.2	1694.1
40°	1565.5	1579.3	1599.1	1618.9	1615.0
42.5°	1494.2	1508.1	1523.9	1543.7	1543.7
45°	1415.1	1428.9	1450.7	1464.6	1466.5
47.5°	1328.0	1349.8	1369.6	1389.3	1391.3
50°	1244.9	1268.6	1288.4	1314.1	1316.1
52.5°	1159.8	1185.5	1211.2	1235.0	1240.9
55°	1074.7	1102.4	1128.1	1159.8	1167.7
57.5°	991.5	1019.2	1050.9	1086.5	1102.4
60°	904.5	934.1	967.8	1019.2	1037.1
62.5°	809.5	843.1	892.6	953.9	973.7
65°	726.3	756.0	819.4	892.6	908.4
67.5°	637.3	667.0	750.1	823.3	845.1
70°	546.2	583.8	682.8	754.0	769.9
72.5°	453.2	502.7	611.5	680.8	700.6
75°	370.1	425.5	538.3	605.6	631.3
77.5°	287.0	356.2	463.1	528.4	556.1
80°	207.8	289.0	385.9	451.2	480.9
82.5°	132.6	213.7	306.8	374.1	397.8
85°	75.2	144.5	221.7	259.3	275.1
87.5°	29.7	71.2	118.7	156.4	166.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)