

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: P217877

Luminaire Tested: **R2X-WO-4L30-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P217877
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-4L30-LD5-UNV-14
Description: CLASS R2X 1X4 RECESSED LED LUMINAIRE WITH A OPAL ROUND LENS
LIGHT LEVEL 4, 3000K CCT.
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5266.0 lumens
Efficiency: N/A
Efficacy: 113.5 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

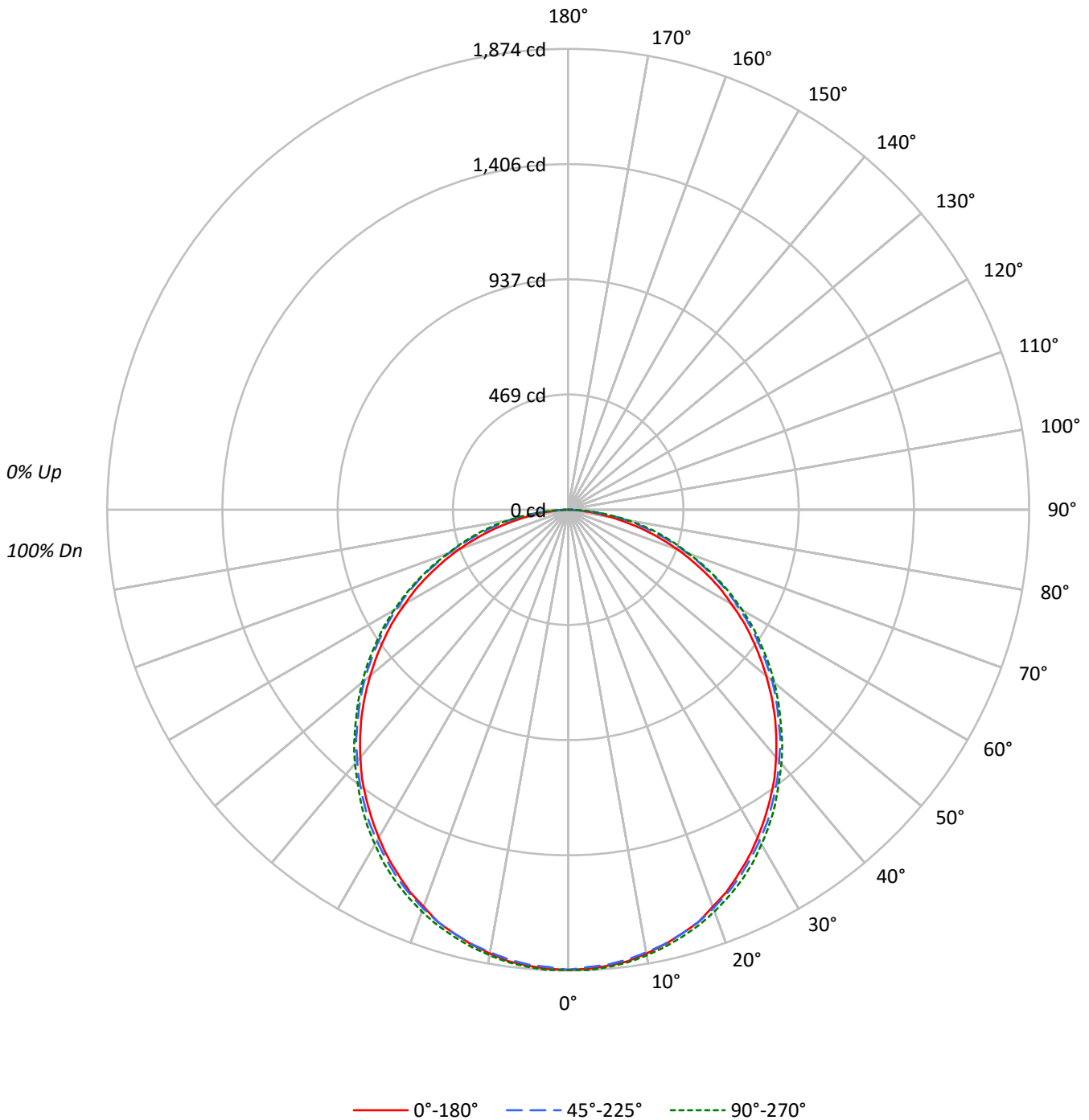
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5035	5035	5035
5°	5029	5016	5042
10°	5008	4995	5028
15°	4972	4972	5006
20°	4919	4940	4981
25°	4858	4893	4943
30°	4786	4830	4882
35°	4705	4760	4815
40°	4618	4685	4736
45°	4519	4601	4647
50°	4399	4529	4580
55°	4277	4434	4491
60°	4119	4325	4402
65°	3956	4231	4277
70°	3718	4058	4096
75°	3343	3816	4040
80°	2751	3643	3792
85°	1927	3186	3112



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.0	3.4
10°-20°	505.1	9.6
20°-30°	760.8	14.4
30°-40°	907.9	17.2
40°-50°	932.9	17.7
50°-60°	841.5	16.0
60°-70°	648.2	12.3
70°-80°	383.6	7.3
80°-90°	109.1	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°	1442.8	27.4
0°-40°	2350.7	44.6
0°-60°	4125.2	78.3
0°-90°	5266.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5266.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1871	1871	1871	1871	1871	
5°	1862	1864	1857	1866	1866	177
15°	1785	1787	1785	1797	1797	504
25°	1636	1646	1648	1662	1665	754
35°	1432	1442	1449	1463	1466	896
45°	1188	1197	1209	1221	1221	915
55°	912	928	945	957	957	815
65°	621	640	664	674	672	615
75°	322	346	367	381	389	341
85°	62	89	103	106	101	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1871.2	1871.2	1871.2	1871.2	1871.2
2.5°	1868.8	1871.2	1861.6	1873.6	1873.6
5°	1861.6	1864.0	1856.8	1866.4	1866.4
7.5°	1852.0	1852.0	1844.8	1856.8	1856.8
10°	1832.8	1835.2	1828.0	1840.0	1840.0
12.5°	1811.2	1813.6	1808.8	1820.8	1820.8
15°	1784.8	1787.2	1784.8	1796.8	1796.8
17.5°	1758.4	1758.4	1758.4	1768.0	1770.4
20°	1717.7	1724.9	1724.9	1736.8	1739.2
22.5°	1681.7	1686.5	1688.9	1703.3	1703.3
25°	1636.1	1645.7	1648.1	1662.5	1664.9
27.5°	1590.5	1600.1	1602.5	1619.3	1621.7
30°	1540.1	1549.7	1554.5	1571.3	1571.3
32.5°	1487.4	1499.4	1506.5	1518.5	1520.9
35°	1432.2	1441.8	1449.0	1463.4	1465.8
37.5°	1377.0	1384.2	1393.8	1408.2	1405.8
40°	1314.6	1324.2	1333.8	1348.2	1348.2
42.5°	1252.3	1266.7	1276.2	1285.8	1288.2
45°	1187.5	1197.1	1209.1	1221.1	1221.1
47.5°	1120.3	1132.3	1146.7	1156.3	1158.7
50°	1050.7	1065.1	1081.9	1093.9	1093.9
52.5°	981.2	995.6	1012.4	1026.8	1026.8
55°	911.6	928.4	945.2	957.2	957.2
57.5°	842.0	858.8	875.6	890.0	890.0
60°	765.3	786.9	803.7	815.6	818.0
62.5°	698.1	712.5	734.1	746.1	746.1
65°	621.3	640.5	664.5	674.1	671.7
67.5°	547.0	563.8	587.7	604.5	597.3
70°	472.6	489.4	515.8	520.6	520.6
72.5°	395.8	419.8	443.8	448.6	453.4
75°	321.5	345.5	367.0	381.4	388.6
77.5°	249.5	273.5	299.9	314.3	319.1
80°	177.5	206.3	235.1	244.7	244.7
82.5°	117.5	141.5	167.9	170.3	172.7
85°	62.4	88.8	103.2	105.6	100.8
87.5°	24.0	33.6	40.8	43.2	43.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)