

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: P217879

Luminaire Tested: **R2X-WO-2L35-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P217879
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-2L35-LD5-UNV-14
Description: CLASS R2X 1X4 RECESSED LED LUMINAIRE WITH A OPAL ROUND LENS
LIGHT LEVEL 2, 3500K CCT.
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3312.5 lumens
Efficiency: N/A
Efficacy: 130.4 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

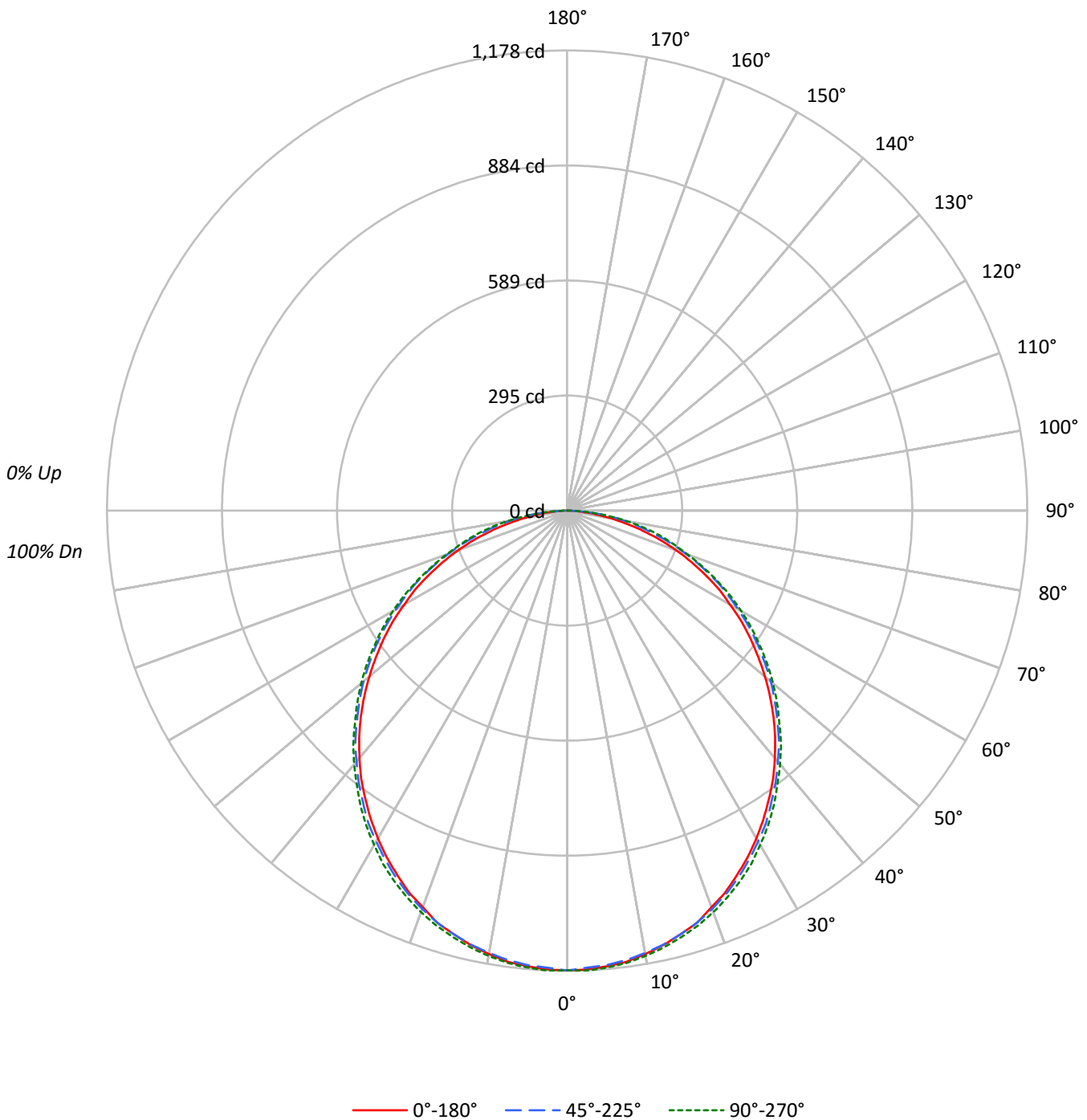
Input Watts (W): 25.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3167	3167	3167
5°	3163	3155	3171
10°	3150	3142	3163
15°	3128	3128	3149
20°	3094	3107	3133
25°	3056	3078	3109
30°	3010	3038	3071
35°	2960	2994	3029
40°	2905	2947	2979
45°	2843	2894	2923
50°	2767	2849	2881
55°	2690	2789	2825
60°	2591	2721	2770
65°	2488	2662	2690
70°	2339	2552	2577
75°	2102	2401	2542
80°	1731	2292	2385
85°	1210	2004	1958



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.3	3.4
10°-20°	317.7	9.6
20°-30°	478.6	14.4
30°-40°	571.1	17.2
40°-50°	586.8	17.7
50°-60°	529.3	16.0
60°-70°	407.8	12.3
70°-80°	241.3	7.3
80°-90°	68.6	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°	907.6	27.4
0°-40°	1478.7	44.6
0°-60°	2594.8	78.3
0°-90°	3312.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3312.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1177	1177	1177	1177	1177	
5°	1171	1172	1168	1174	1174	111
15°	1123	1124	1123	1130	1130	317
25°	1029	1035	1037	1046	1047	474
35°	901	907	911	920	922	564
45°	747	753	760	768	768	576
55°	573	584	594	602	602	512
65°	391	403	418	424	422	387
75°	202	217	231	240	244	214
85°	39	56	65	66	63	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1177.0	1177.0	1177.0	1177.0	1177.0
2.5°	1175.5	1177.0	1171.0	1178.5	1178.5
5°	1171.0	1172.5	1168.0	1174.0	1174.0
7.5°	1164.9	1164.9	1160.4	1168.0	1168.0
10°	1152.9	1154.4	1149.9	1157.4	1157.4
12.5°	1139.3	1140.8	1137.8	1145.3	1145.3
15°	1122.7	1124.2	1122.7	1130.2	1130.2
17.5°	1106.1	1106.1	1106.1	1112.1	1113.6
20°	1080.4	1085.0	1085.0	1092.5	1094.0
22.5°	1057.8	1060.8	1062.3	1071.4	1071.4
25°	1029.1	1035.2	1036.7	1045.7	1047.2
27.5°	1000.5	1006.5	1008.0	1018.6	1020.1
30°	968.8	974.8	977.8	988.4	988.4
32.5°	935.6	943.1	947.7	955.2	956.7
35°	900.9	906.9	911.4	920.5	922.0
37.5°	866.2	870.7	876.7	885.8	884.3
40°	826.9	833.0	839.0	848.1	848.1
42.5°	787.7	796.8	802.8	808.8	810.3
45°	747.0	753.0	760.5	768.1	768.1
47.5°	704.7	712.2	721.3	727.3	728.8
50°	660.9	670.0	680.6	688.1	688.1
52.5°	617.2	626.2	636.8	645.9	645.9
55°	573.4	584.0	594.5	602.1	602.1
57.5°	529.7	540.2	550.8	559.8	559.8
60°	481.4	495.0	505.5	513.1	514.6
62.5°	439.1	448.2	461.8	469.3	469.3
65°	390.8	402.9	418.0	424.0	422.5
67.5°	344.1	354.6	369.7	380.3	375.7
70°	297.3	307.8	324.4	327.5	327.5
72.5°	249.0	264.1	279.2	282.2	285.2
75°	202.2	217.3	230.9	239.9	244.5
77.5°	156.9	172.0	188.6	197.7	200.7
80°	111.7	129.8	147.9	153.9	153.9
82.5°	73.9	89.0	105.6	107.1	108.6
85°	39.2	55.8	64.9	66.4	63.4
87.5°	15.1	21.1	25.7	27.2	27.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)