

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: P35823-R2

Luminaire Tested: **R2X-WO-1L35-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 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-1L35-LD5-UNV-24
Description: CLASS R2X 2X4 RECESSED LED LUMINAIRE WITH A OPAL ROUND LENS
LIGHT LEVEL 1, 3500K CCT.
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

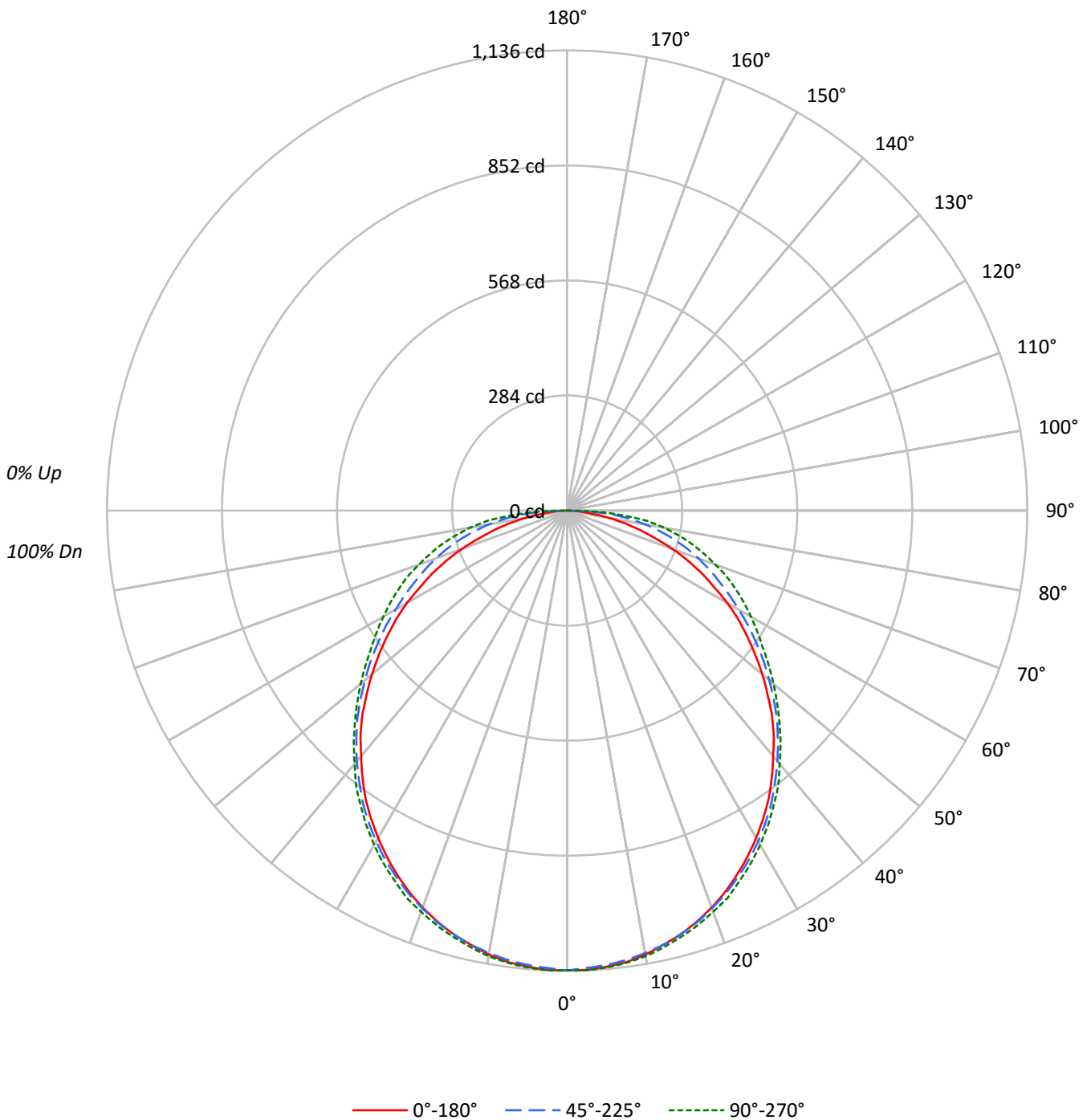
Lumens per Lamp: N/A
Luminaire Lumens: 3293.8 lumens
Efficiency: N/A
Efficacy: 131.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.1
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



TEST NUMBER: P35823-R2
CATALOG NUMBER: R2X-WO-1L35-LD5-UNV-24

Luminous Intensity Polar Plot





TEST NUMBER: P35823-R2

CATALOG NUMBER: R2X-WO-1L35-LD5-UNV-24

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°	1527	1527	1527
5°	1526	1521	1529
10°	1521	1515	1526
15°	1509	1509	1517
20°	1493	1496	1509
25°	1473	1482	1496
30°	1450	1465	1481
35°	1426	1445	1460
40°	1389	1419	1433
45°	1361	1395	1410
50°	1317	1363	1392
55°	1274	1337	1384
60°	1230	1316	1410
65°	1168	1318	1461
70°	1086	1357	1530
75°	972	1414	1658
80°	814	1511	1883
85°	587	1729	2146



TEST NUMBER: P35823-R2

CATALOG NUMBER: R2X-WO-1L35-LD5-UNV-24

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.3	3.3
10°-20°	306.4	9.3
20°-30°	461.0	14.0
30°-40°	549.9	16.7
40°-50°	563.7	17.1
50°-60°	510.6	15.5
60°-70°	410.7	12.5
70°-80°	276.2	8.4
80°-90°	107.9	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°	874.7	26.6
0°-40°	1424.6	43.3
0°-60°	2498.9	75.9
0°-90°	3293.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3293.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1135	1135	1135	1135	1135	
5°	1130	1130	1126	1132	1132	107
15°	1083	1085	1083	1090	1089	305
25°	992	995	998	1008	1008	457
35°	868	872	880	887	889	542
45°	715	722	733	740	741	550
55°	543	557	570	586	590	486
65°	367	382	414	451	459	362
75°	187	215	272	306	319	198
85°	38	73	112	131	139	47
90°	0	0	0	0	0	



TEST NUMBER: P35823-R2

CATALOG NUMBER: R2X-WO-1L35-LD5-UNV-24

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1135	1135	1135	1135	1135
2.5°	1135	1135	1130	1136	1136
5°	1130	1130	1126	1132	1132
7.5°	1124	1124	1119	1126	1126
10°	1113	1113	1109	1117	1117
12.5°	1098	1101	1098	1105	1104
15°	1083	1085	1083	1090	1089
17.5°	1064	1066	1066	1073	1073
20°	1043	1045	1045	1054	1054
22.5°	1019	1022	1023	1033	1035
25°	992	995	998	1008	1008
27.5°	964	967	972	982	982
30°	933	938	943	954	953
32.5°	901	906	912	921	922
35°	868	872	880	887	889
37.5°	830	836	843	855	856
40°	791	798	808	818	816
42.5°	755	762	770	780	780
45°	715	722	733	740	741
47.5°	671	682	692	702	703
50°	629	641	651	664	665
52.5°	586	599	612	624	627
55°	543	557	570	586	590
57.5°	501	515	531	549	557
60°	457	472	489	515	524
62.5°	409	426	451	482	492
65°	367	382	414	451	459
67.5°	322	337	379	416	427
70°	276	295	345	381	389
72.5°	229	254	309	344	354
75°	187	215	272	306	319
77.5°	145	180	234	267	281
80°	105	146	195	228	243
82.5°	67	108	155	189	201
85°	38	73	112	131	139
87.5°	15	36	60	79	84
90°	0	0	0	0	0

(END OF REPORT)