

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: P35828-R2

Luminaire Tested: **R2X-WO-1L35-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 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-1L35-LD5-UNV-14
Description: CLASS R2X 1X4 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

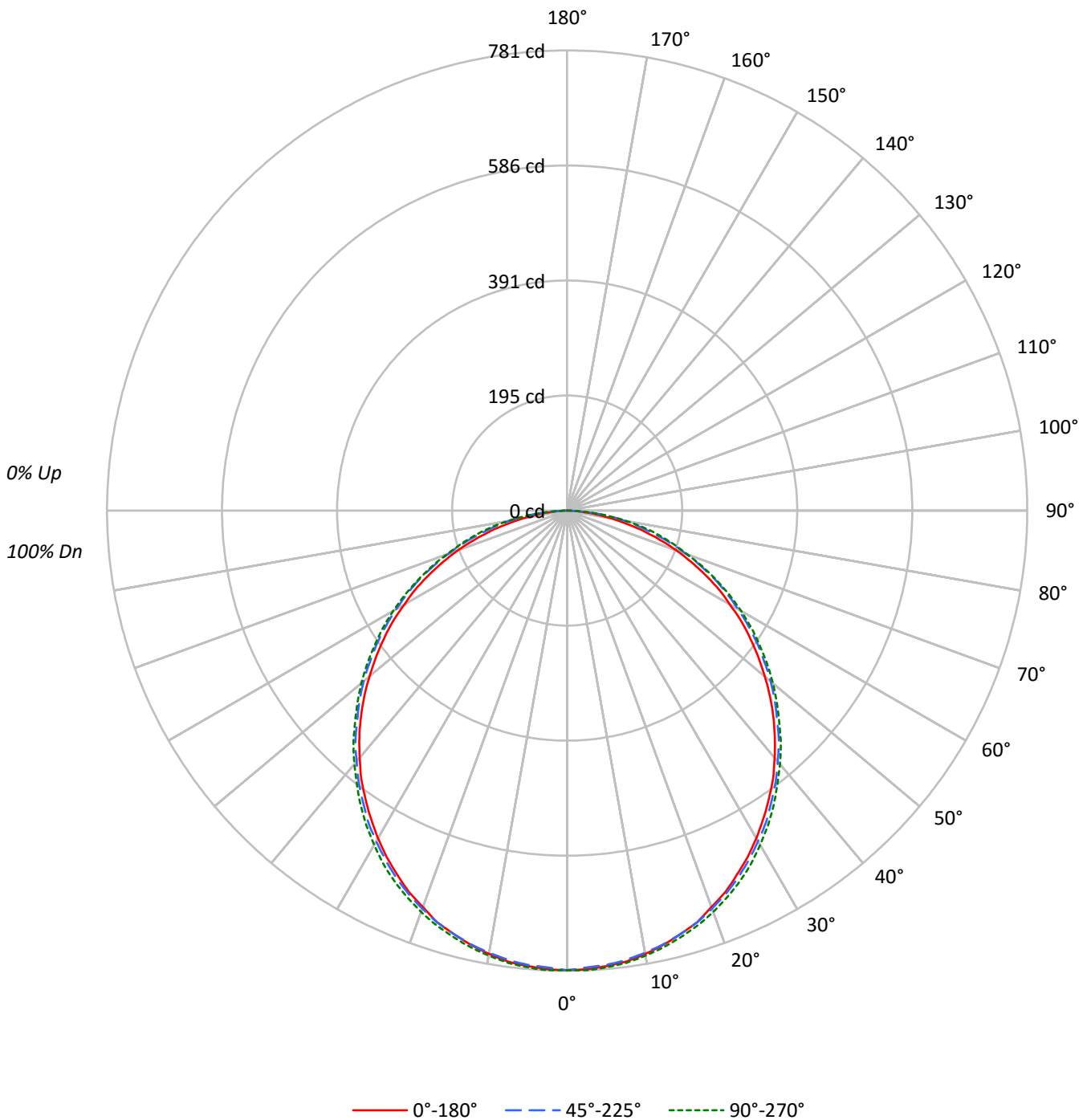
Lumens per Lamp: N/A
Luminaire Lumens: 2195.1 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
Input Voltage (V): 120
Input Current (A_{in}): 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: P35828-R2
CATALOG NUMBER: R2X-WO-1L35-LD5-UNV-14

Luminous Intensity Polar Plot





TEST NUMBER: P35828-R2

CATALOG NUMBER: R2X-WO-1L35-LD5-UNV-14

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°	2099	2099	2099
5°	2096	2091	2102
10°	2088	2082	2096
15°	2073	2073	2087
20°	2050	2059	2076
25°	2025	2040	2061
30°	1995	2014	2035
35°	1961	1984	2007
40°	1925	1953	1974
45°	1884	1918	1937
50°	1834	1888	1909
55°	1783	1848	1872
60°	1717	1803	1835
65°	1649	1764	1783
70°	1550	1692	1707
75°	1393	1591	1684
80°	1147	1519	1581
85°	803	1328	1297



TEST NUMBER: P35828-R2

CATALOG NUMBER: R2X-WO-1L35-LD5-UNV-14

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.8	3.4
10°-20°	210.5	9.6
20°-30°	317.1	14.4
30°-40°	378.5	17.2
40°-50°	388.9	17.7
50°-60°	350.8	16.0
60°-70°	270.2	12.3
70°-80°	159.9	7.3
80°-90°	45.5	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°	601.4	27.4
0°-40°	979.9	44.6
0°-60°	1719.6	78.3
0°-90°	2195.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2195.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	780	780	780	780	780	
5°	776	777	774	778	778	74
15°	744	745	744	749	749	210
25°	682	686	687	693	694	314
35°	597	601	604	610	611	374
45°	495	499	504	509	509	382
55°	380	387	394	399	399	340
65°	259	267	277	281	280	256
75°	134	144	153	159	162	142
85°	26	37	43	44	42	33
90°	0	0	0	0	0	



TEST NUMBER: P35828-R2

CATALOG NUMBER: R2X-WO-1L35-LD5-UNV-14

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	780	780	780	780	780
2.5°	779	780	776	781	781
5°	776	777	774	778	778
7.5°	772	772	769	774	774
10°	764	765	762	767	767
12.5°	755	756	754	759	759
15°	744	745	744	749	749
17.5°	733	733	733	737	738
20°	716	719	719	724	725
22.5°	701	703	704	710	710
25°	682	686	687	693	694
27.5°	663	667	668	675	676
30°	642	646	648	655	655
32.5°	620	625	628	633	634
35°	597	601	604	610	611
37.5°	574	577	581	587	586
40°	548	552	556	562	562
42.5°	522	528	532	536	537
45°	495	499	504	509	509
47.5°	467	472	478	482	483
50°	438	444	451	456	456
52.5°	409	415	422	428	428
55°	380	387	394	399	399
57.5°	351	358	365	371	371
60°	319	328	335	340	341
62.5°	291	297	306	311	311
65°	259	267	277	281	280
67.5°	228	235	245	252	249
70°	197	204	215	217	217
72.5°	165	175	185	187	189
75°	134	144	153	159	162
77.5°	104	114	125	131	133
80°	74	86	98	102	102
82.5°	49	59	70	71	72
85°	26	37	43	44	42
87.5°	10	14	17	18	18
90°	0	0	0	0	0

(END OF REPORT)