

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: P217876

Luminaire Tested: **R2X-WO-3L30-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P217876
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-3L30-LD5-UNV-14
Description: CLASS R2X 1X4 RECESSED LED LUMINAIRE WITH A OPAL ROUND LENS
LIGHT LEVEL 3, 3000K CCT.
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

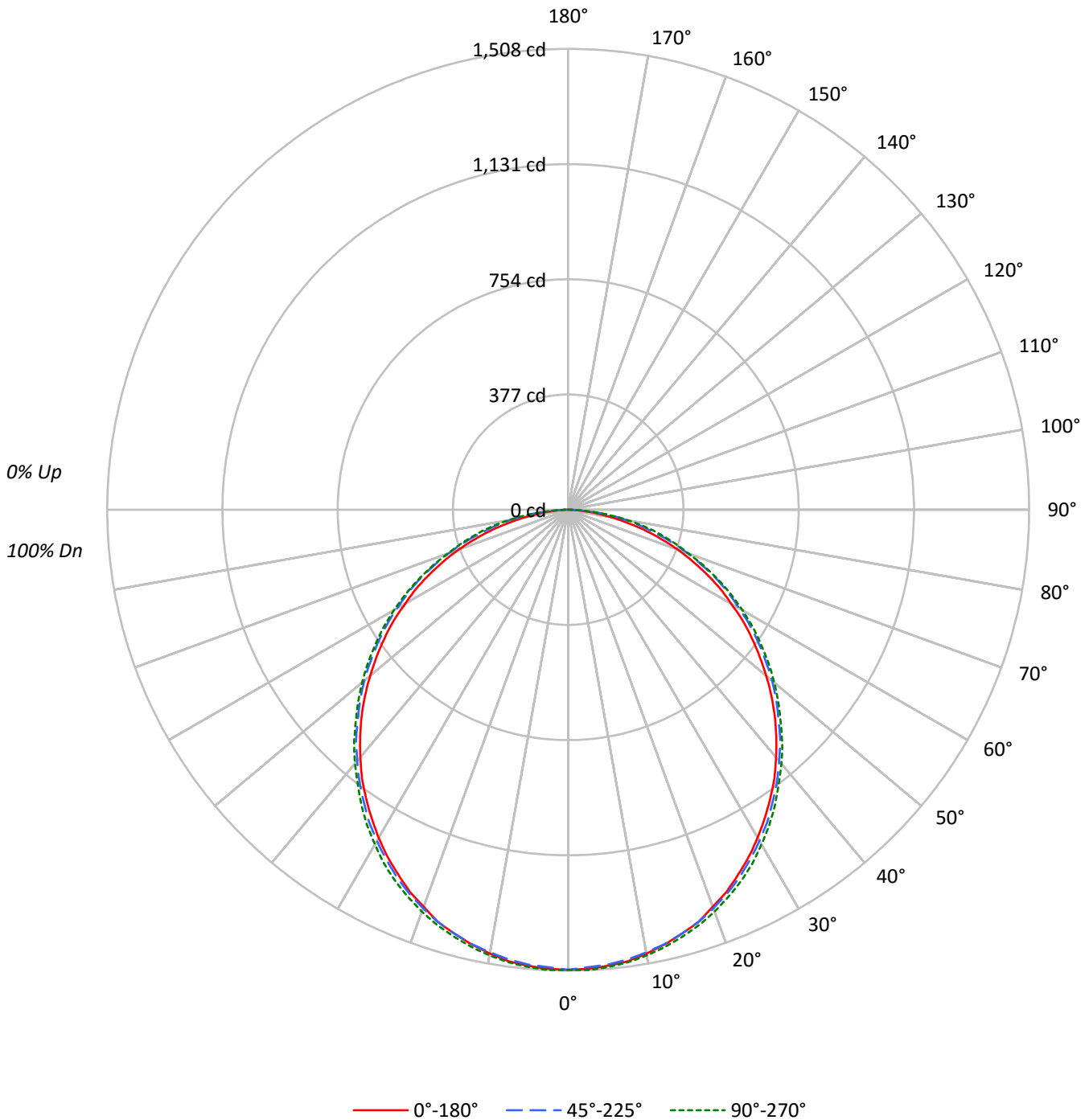
Lumens per Lamp: N/A
Luminaire Lumens: 4237.8 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35.6
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	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					100			
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	88	86	83					83			
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69					69			
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	65	60	58					58			
4	82	70	61	54	80	69	61	54	66	59	53	64	58	53	62	56	52	50					50			
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43					43			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38					38			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30					30			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27					27			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4052	4052	4052
5°	4047	4036	4057
10°	4030	4020	4046
15°	4001	4001	4028
20°	3958	3975	4008
25°	3909	3938	3978
30°	3851	3887	3929
35°	3786	3831	3875
40°	3716	3771	3811
45°	3637	3703	3740
50°	3540	3645	3685
55°	3442	3568	3614
60°	3314	3481	3543
65°	3184	3405	3442
70°	2992	3266	3296
75°	2690	3071	3251
80°	2214	2932	3051
85°	1550	2563	2504



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.4	3.4
10°-20°	406.5	9.6
20°-30°	612.3	14.4
30°-40°	730.6	17.2
40°-50°	750.8	17.7
50°-60°	677.2	16.0
60°-70°	521.7	12.3
70°-80°	308.7	7.3
80°-90°	87.7	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°	1161.1	27.4
0°-40°	1891.7	44.6
0°-60°	3319.7	78.3
0°-90°	4237.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4237.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1506	1506	1506	1506	1506	
5°	1498	1500	1494	1502	1502	142
15°	1436	1438	1436	1446	1446	405
25°	1317	1324	1326	1338	1340	607
35°	1152	1160	1166	1178	1180	721
45°	956	963	973	983	983	737
55°	734	747	761	770	770	656
65°	500	516	535	542	541	495
75°	259	278	295	307	313	274
85°	50	71	83	85	81	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1505.8	1505.8	1505.8	1505.8	1505.8
2.5°	1503.9	1505.8	1498.1	1507.8	1507.8
5°	1498.1	1500.0	1494.2	1502.0	1502.0
7.5°	1490.4	1490.4	1484.6	1494.2	1494.2
10°	1474.9	1476.9	1471.1	1480.7	1480.7
12.5°	1457.6	1459.5	1455.6	1465.3	1465.3
15°	1436.3	1438.3	1436.3	1446.0	1446.0
17.5°	1415.1	1415.1	1415.1	1422.8	1424.7
20°	1382.3	1388.1	1388.1	1397.7	1399.6
22.5°	1353.3	1357.2	1359.1	1370.7	1370.7
25°	1316.6	1324.4	1326.3	1337.9	1339.8
27.5°	1280.0	1287.7	1289.6	1303.1	1305.1
30°	1239.4	1247.1	1251.0	1264.5	1264.5
32.5°	1196.9	1206.6	1212.4	1222.0	1224.0
35°	1152.5	1160.3	1166.1	1177.6	1179.6
37.5°	1108.1	1113.9	1121.6	1133.2	1131.3
40°	1057.9	1065.7	1073.4	1085.0	1085.0
42.5°	1007.7	1019.3	1027.1	1034.8	1036.7
45°	955.6	963.3	973.0	982.7	982.7
47.5°	901.6	911.2	922.8	930.5	932.5
50°	845.6	857.2	870.7	880.3	880.3
52.5°	789.6	801.2	814.7	826.3	826.3
55°	733.6	747.1	760.6	770.3	770.3
57.5°	677.6	691.1	704.7	716.2	716.2
60°	615.8	633.2	646.7	656.4	658.3
62.5°	561.8	573.4	590.7	600.4	600.4
65°	500.0	515.5	534.8	542.5	540.6
67.5°	440.2	453.7	473.0	486.5	480.7
70°	380.3	393.8	415.1	418.9	418.9
72.5°	318.5	337.8	357.2	361.0	364.9
75°	258.7	278.0	295.4	307.0	312.7
77.5°	200.8	220.1	241.3	252.9	256.8
80°	142.9	166.0	189.2	196.9	196.9
82.5°	94.6	113.9	135.1	137.1	139.0
85°	50.2	71.4	83.0	84.9	81.1
87.5°	19.3	27.0	32.8	34.7	34.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)