

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: P217880

Luminaire Tested: **R2X-WO-3L35-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P217880
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-3L35-LD5-UNV-14
Description: CLASS R2X 1X4 RECESSED LED LUMINAIRE WITH A OPAL ROUND LENS
LIGHT LEVEL 3, 3500K CCT.
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4411.9 lumens
Efficiency: N/A
Efficacy: 123.9 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

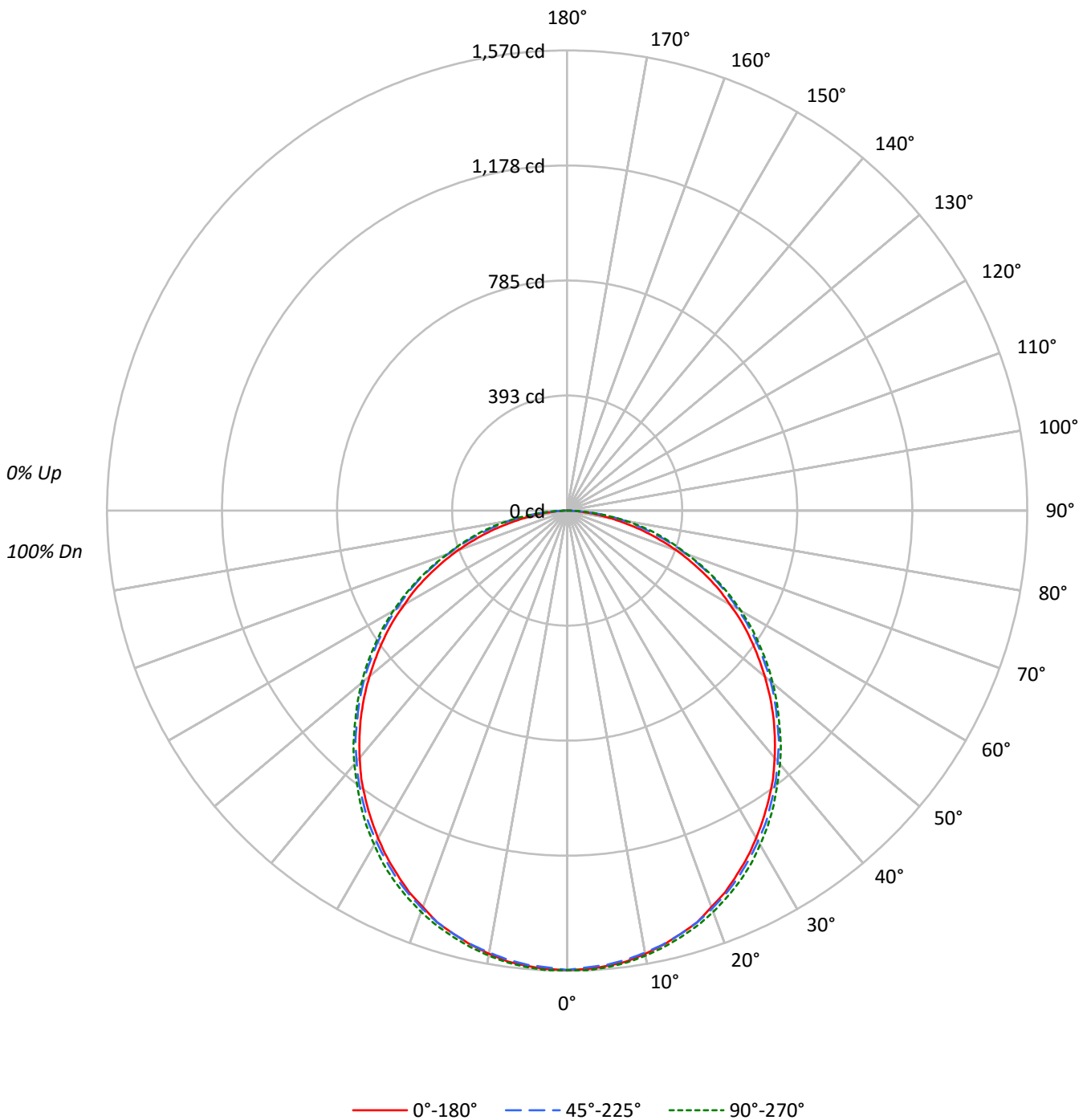
Input Watts (W): 35.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4219	4219	4219
5°	4213	4202	4224
10°	4196	4185	4212
15°	4166	4166	4194
20°	4121	4138	4173
25°	4070	4100	4142
30°	4009	4047	4091
35°	3942	3988	4034
40°	3869	3926	3968
45°	3786	3855	3893
50°	3685	3795	3837
55°	3583	3715	3762
60°	3451	3624	3689
65°	3315	3545	3584
70°	3115	3400	3431
75°	2800	3197	3385
80°	2304	3053	3177
85°	1615	2668	2606



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.3	3.4
10°-20°	423.2	9.6
20°-30°	637.4	14.4
30°-40°	760.7	17.2
40°-50°	781.6	17.7
50°-60°	705.0	16.0
60°-70°	543.1	12.3
70°-80°	321.3	7.3
80°-90°	91.4	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°	1208.8	27.4
0°-40°	1969.5	44.6
0°-60°	3456.1	78.3
0°-90°	4411.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4411.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1568	1568	1568	1568	1568	
5°	1560	1562	1556	1564	1564	148
15°	1495	1497	1495	1505	1505	422
25°	1371	1379	1381	1393	1395	632
35°	1200	1208	1214	1226	1228	751
45°	995	1003	1013	1023	1023	767
55°	764	778	792	802	802	683
65°	521	537	557	565	563	515
75°	269	289	308	320	326	285
85°	52	74	86	88	84	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1567.7	1567.7	1567.7	1567.7	1567.7
2.5°	1565.7	1567.7	1559.7	1569.7	1569.7
5°	1559.7	1561.7	1555.6	1563.7	1563.7
7.5°	1551.6	1551.6	1545.6	1555.6	1555.6
10°	1535.5	1537.6	1531.5	1541.6	1541.6
12.5°	1517.5	1519.5	1515.4	1525.5	1525.5
15°	1495.3	1497.4	1495.3	1505.4	1505.4
17.5°	1473.2	1473.2	1473.2	1481.3	1483.3
20°	1439.1	1445.1	1445.1	1455.2	1457.2
22.5°	1408.9	1412.9	1415.0	1427.0	1427.0
25°	1370.7	1378.8	1380.8	1392.8	1394.9
27.5°	1332.5	1340.6	1342.6	1356.7	1358.7
30°	1290.3	1298.4	1302.4	1316.5	1316.5
32.5°	1246.1	1256.2	1262.2	1272.3	1274.3
35°	1199.9	1207.9	1214.0	1226.0	1228.0
37.5°	1153.7	1159.7	1167.7	1179.8	1177.8
40°	1101.4	1109.5	1117.5	1129.6	1129.6
42.5°	1049.2	1061.2	1069.3	1077.3	1079.3
45°	994.9	1002.9	1013.0	1023.0	1023.0
47.5°	938.6	948.7	960.7	968.8	970.8
50°	880.3	892.4	906.5	916.5	916.5
52.5°	822.0	834.1	848.2	860.2	860.2
55°	763.8	777.8	791.9	801.9	801.9
57.5°	705.5	719.5	733.6	745.7	745.7
60°	641.2	659.2	673.3	683.4	685.4
62.5°	584.9	596.9	615.0	625.1	625.1
65°	520.6	536.6	556.7	564.8	562.8
67.5°	458.3	472.3	492.4	506.5	500.5
70°	395.9	410.0	432.1	436.1	436.1
72.5°	331.6	351.7	371.8	375.8	379.9
75°	269.3	289.4	307.5	319.6	325.6
77.5°	209.0	229.1	251.2	263.3	267.3
80°	148.7	172.8	197.0	205.0	205.0
82.5°	98.5	118.6	140.7	142.7	144.7
85°	52.3	74.4	86.4	88.4	84.4
87.5°	20.1	28.1	34.2	36.2	36.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)