

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P302354

Luminaire Tested: **RX-WO-45L830-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302354
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1902-133-41)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: RX-WO-45L830-UNV-24-STD
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.
ROUND LENS, STANDARD LUMEN PACKAGE.
Light Source: (168)3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

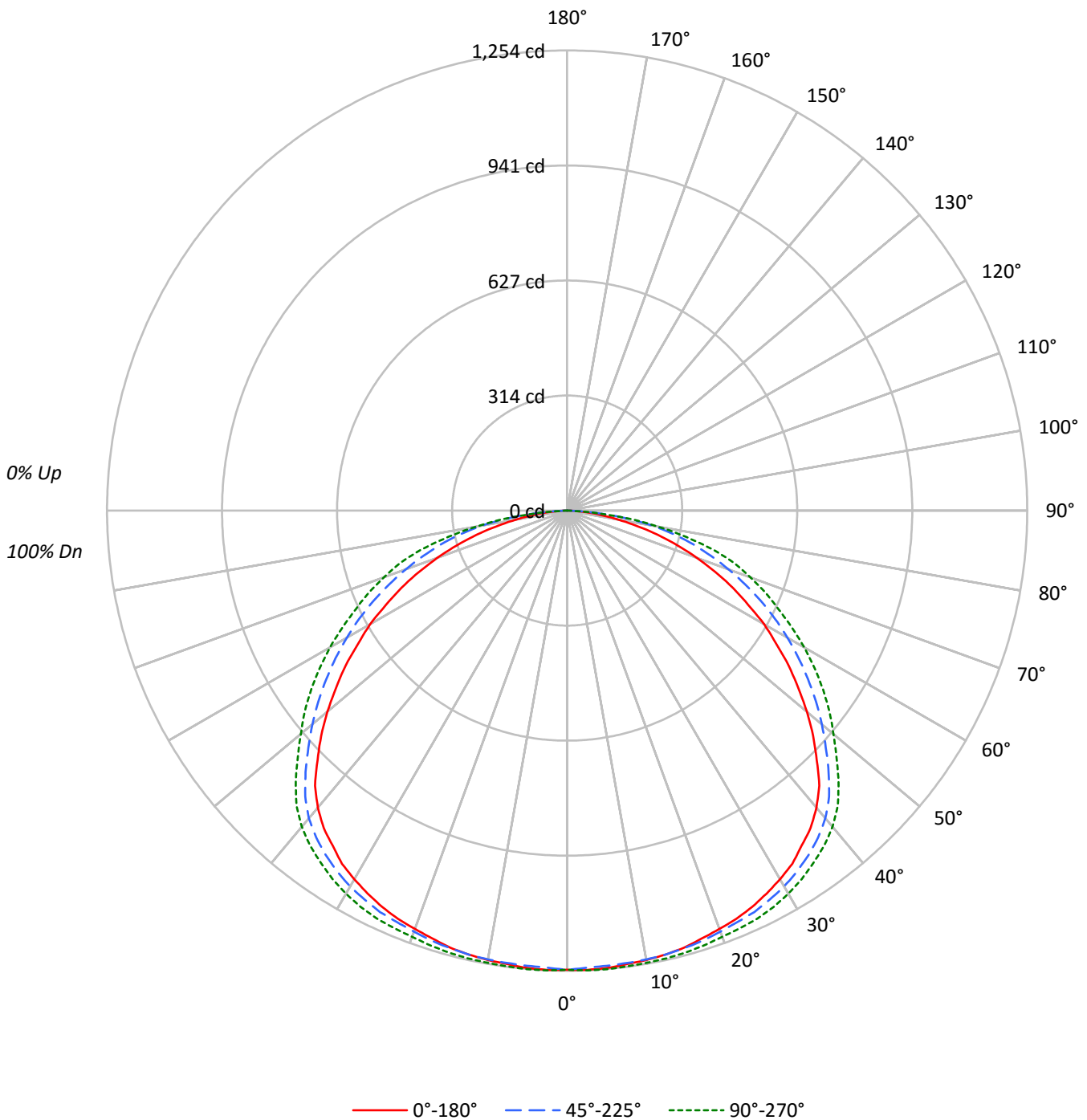
Lumens per Lamp: N/A
Luminaire Lumens: 4260.9 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Spacing Criteria (0/90/45): 1.38 / 1.43 / 1.51
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35.3
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	108	103	98	94	105	101	97	93	96	93	90	93	90	87	89	87	85	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	58	50	44	55	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	35	30	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1684	1684	1684
5°	1690	1682	1694
10°	1699	1697	1710
15°	1718	1720	1737
20°	1737	1748	1770
25°	1770	1792	1821
30°	1802	1838	1873
35°	1830	1883	1923
40°	1856	1923	1976
45°	1831	1918	1990
50°	1785	1897	1983
55°	1730	1879	1997
60°	1669	1866	2009
65°	1588	1854	2023
70°	1477	1842	2087
75°	1328	1850	2142
80°	1096	1826	1956
85°	798	1362	1267



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.2	2.8
10°-20°	350.4	8.2
20°-30°	558.0	13.1
30°-40°	717.4	16.8
40°-50°	775.7	18.2
50°-60°	713.6	16.7
60°-70°	568.9	13.4
70°-80°	361.4	8.5
80°-90°	96.3	2.3
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°	1027.6	24.1
0°-40°	1745.0	41.0
0°-60°	3234.3	75.9
0°-90°	4260.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4260.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1251	1251	1251	1251	1251	
5°	1251	1251	1245	1253	1254	119
15°	1233	1234	1234	1245	1247	348
25°	1192	1196	1207	1221	1227	550
35°	1114	1127	1146	1168	1171	698
45°	962	979	1008	1035	1046	742
55°	737	759	801	838	851	658
65°	499	524	582	625	636	492
75°	255	292	356	403	412	270
85°	52	81	88	88	82	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1251.3	1251.3	1251.3	1251.3	1251.3
2.5°	1252.8	1252.8	1246.7	1254.3	1254.3
5°	1251.3	1251.3	1245.2	1252.8	1254.3
7.5°	1246.7	1248.2	1243.7	1251.3	1252.8
10°	1243.7	1245.2	1242.1	1249.7	1251.3
12.5°	1239.1	1240.6	1239.1	1248.2	1249.7
15°	1233.0	1234.5	1234.5	1245.2	1246.7
17.5°	1222.4	1225.4	1228.5	1240.6	1242.1
20°	1213.3	1216.3	1220.9	1234.5	1236.1
22.5°	1204.1	1207.2	1213.3	1230.0	1231.5
25°	1192.0	1196.5	1207.2	1220.9	1226.9
27.5°	1176.8	1185.9	1195.0	1211.7	1217.8
30°	1160.0	1169.2	1182.8	1201.1	1205.6
32.5°	1141.8	1150.9	1166.1	1185.9	1190.4
35°	1114.4	1126.6	1146.4	1167.6	1170.7
37.5°	1090.1	1102.3	1123.5	1146.4	1150.9
40°	1056.7	1071.9	1094.7	1115.9	1125.1
42.5°	1017.1	1032.3	1056.7	1082.5	1091.6
45°	962.4	979.1	1008.0	1035.4	1046.0
47.5°	909.2	924.4	956.3	988.2	995.8
50°	852.9	871.2	906.1	939.6	947.2
52.5°	793.6	816.4	854.4	889.4	901.6
55°	737.4	758.7	801.2	837.7	851.4
57.5°	675.0	700.9	748.0	787.5	799.7
60°	620.3	643.1	693.3	734.3	746.5
62.5°	556.5	583.8	638.6	679.6	690.2
65°	498.7	524.5	582.3	624.9	635.5
67.5°	436.3	466.8	524.5	568.6	585.3
70°	375.5	407.5	468.3	513.9	530.6
72.5°	314.7	349.7	410.5	457.6	478.9
75°	255.4	291.9	355.8	402.9	412.0
77.5°	196.1	237.2	298.0	331.4	331.4
80°	141.4	182.4	235.7	244.8	252.4
82.5°	94.3	132.3	161.2	170.3	171.8
85°	51.7	80.6	88.2	88.2	82.1
87.5°	19.8	25.8	18.2	9.1	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)