

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: P189039

Luminaire Tested: **RZL-WL-40L830-1D-UNV-STD-W-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189039
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34814)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: RZL-WL-40L830-1D-UNV-STD-W-4
Description: RZL LINEAR LED FIXTURE
WITH LUMINOUS SIDES AND SNAP-ON FROSTED LINEAR PRISMATIC LENS
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4209.5 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.23 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 0.53' x L: 3.83' x H: 0.12')
CIE Type: Semi-Direct

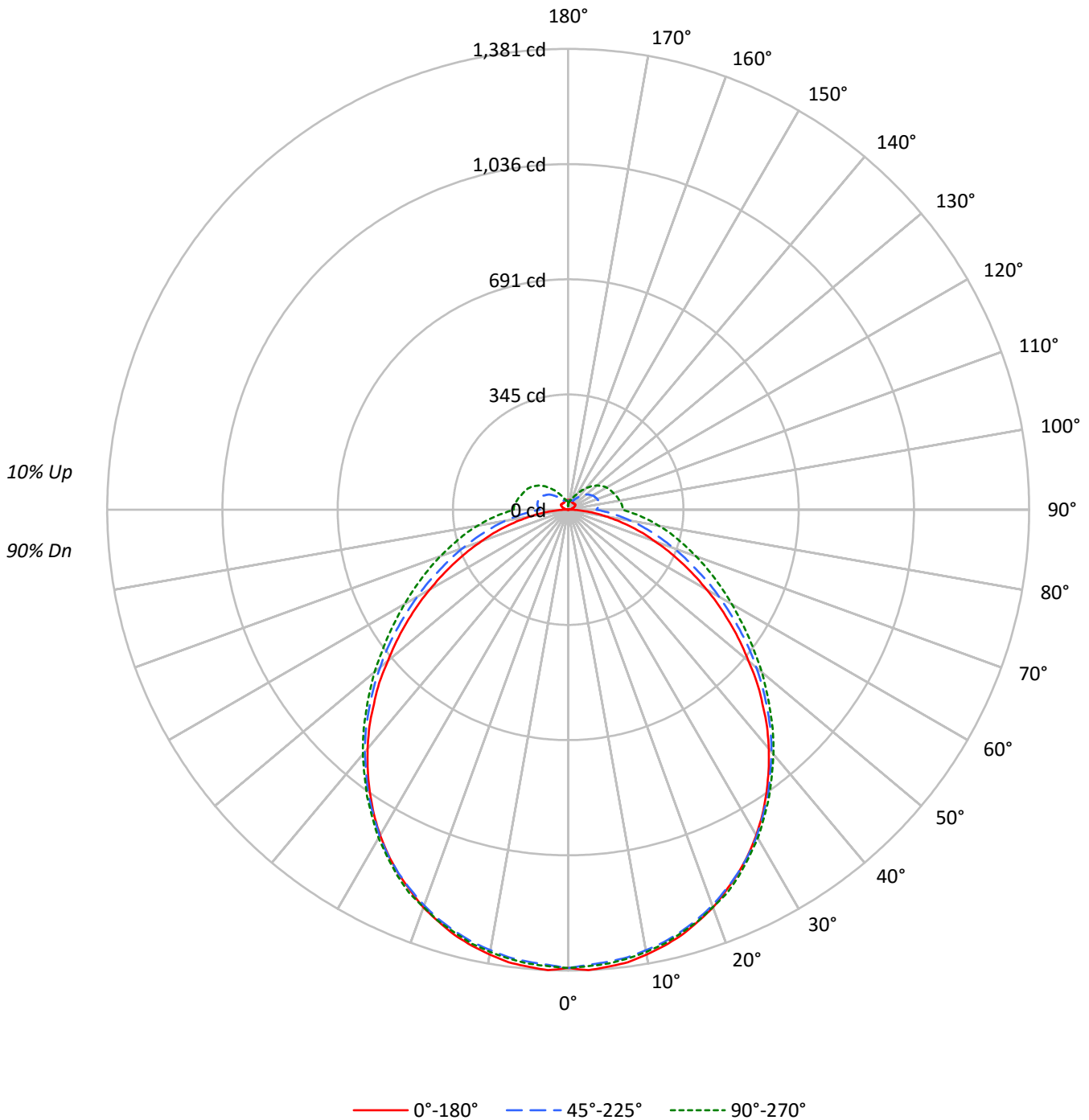
Input Watts (W): 34.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	117	117	117	117	113	113	113	113	105	105	105	99	99	99	92	92	92	90
1	106	101	96	92	102	97	93	90	91	88	85	86	83	81	80	78	76	74
2	96	88	81	75	93	85	79	73	80	75	70	75	71	67	70	67	64	61
3	88	77	69	63	84	75	67	61	70	64	59	66	61	57	62	58	54	52
4	80	68	60	53	77	66	58	52	63	56	50	59	53	49	56	51	47	44
5	74	61	52	46	71	59	51	45	56	49	44	53	47	42	50	45	41	38
6	68	55	46	40	66	54	45	39	51	44	38	48	42	37	46	40	36	34
7	63	50	41	35	61	49	41	35	46	39	34	44	38	33	42	36	32	30
8	59	46	37	32	57	45	37	31	42	35	30	40	34	30	38	33	29	27
9	55	42	34	28	53	41	33	28	39	32	27	37	31	27	35	30	26	24
10	52	39	31	26	50	38	30	25	36	29	25	34	28	24	33	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7231	7231	7231
5°	7245	7071	7071
10°	7195	6935	6908
15°	7127	6788	6731
20°	7025	6616	6542
25°	6888	6420	6338
30°	6724	6192	6084
35°	6506	5923	5797
40°	6252	5624	5497
45°	5936	5281	5166
50°	5561	4919	4847
55°	5185	4533	4522
60°	4770	4145	4240
65°	4352	3750	4000
70°	3895	3400	3811
75°	3462	3069	3668
80°	2884	2776	3572
85°	2275	2510	3548



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.9	3.1
10°-20°	370.6	8.8
20°-30°	555.3	13.2
30°-40°	652.4	15.5
40°-50°	650.1	15.4
50°-60°	560.5	13.3
60°-70°	423.7	10.1
70°-80°	277.5	6.6
80°-90°	147.5	3.5
90°-100°	95.2	2.3
100°-110°	93.2	2.2
110°-120°	83.8	2.0
120°-130°	67.8	1.6
130°-140°	47.3	1.1
140°-150°	28.6	0.7
150°-160°	15.4	0.4
160°-170°	8.1	0.2
170°-180°	2.5	0.1
0°-30°	1055.8	25.1
0°-40°	1708.2	40.6
0°-60°	2918.9	69.3
0°-90°	3767.6	89.5
90°-120°	272.2	6.5
90°-150°	415.9	9.9
90°-180°	442.0	10.5
0°-180°	4209.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1373	1373	1373	1373	1373	
5°	1375	1369	1360	1368	1365	131
15°	1319	1314	1308	1318	1312	372
25°	1204	1204	1202	1214	1210	554
35°	1035	1039	1043	1051	1050	647
45°	823	832	843	856	856	635
55°	591	600	627	650	658	529
65°	374	387	423	465	482	371
75°	191	208	257	314	338	203
85°	52	77	131	194	216	55
90°	0	29	85	143	163	4
95°	3	33	90	144	162	3
105°	12	38	94	139	151	12
115°	20	41	89	129	139	20
125°	25	38	78	113	123	23
135°	25	32	60	89	99	20
145°	24	30	41	62	70	15
155°	26	29	30	36	45	12
165°	28	29	29	26	30	8
175°	29	29	26	21	15	3
180°	24	24	24	24	24	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1373.4	1373.4	1373.4	1373.4	1373.4
2.5°	1381.3	1374.7	1365.4	1372.1	1369.4
5°	1374.7	1369.4	1360.1	1368.1	1365.4
7.5°	1368.1	1361.5	1353.5	1361.5	1357.5
10°	1353.5	1348.2	1340.3	1350.9	1345.6
12.5°	1337.6	1333.6	1327.0	1336.3	1332.3
15°	1319.0	1313.7	1308.4	1317.7	1312.4
17.5°	1293.9	1291.2	1287.2	1297.8	1292.5
20°	1268.7	1264.7	1262.0	1274.0	1267.3
22.5°	1235.5	1235.5	1232.9	1244.8	1243.5
25°	1203.7	1203.7	1202.4	1214.3	1210.3
27.5°	1166.6	1166.6	1167.9	1175.9	1173.2
30°	1126.8	1126.8	1129.5	1138.8	1136.1
32.5°	1083.1	1085.7	1085.7	1095.0	1092.4
35°	1035.3	1039.3	1043.3	1051.3	1049.9
37.5°	986.3	990.3	994.3	1004.9	1002.2
40°	934.6	939.9	947.9	958.5	957.1
42.5°	881.6	885.5	897.5	906.8	908.1
45°	823.2	832.5	843.1	856.4	856.4
47.5°	767.6	775.5	790.1	804.7	806.0
50°	705.3	718.5	735.7	751.7	757.0
52.5°	648.3	660.2	682.7	700.0	705.3
55°	591.2	600.5	627.0	649.6	657.5
57.5°	535.6	544.9	574.0	601.9	609.8
60°	478.6	491.8	522.3	555.5	566.1
62.5°	425.5	437.5	473.3	509.1	523.6
65°	373.8	387.1	422.9	465.3	482.5
67.5°	324.8	339.4	379.1	424.2	444.1
70°	275.7	291.6	335.4	385.8	407.0
72.5°	234.6	249.2	295.6	348.7	371.2
75°	190.9	208.1	257.2	314.2	338.0
77.5°	151.1	169.7	222.7	281.0	307.6
80°	112.7	136.5	189.6	250.6	274.4
82.5°	82.2	103.4	159.1	221.4	245.2
85°	51.7	76.9	131.2	193.5	216.1
87.5°	25.2	51.7	106.1	164.4	186.9
90°	0.0	29.2	84.8	143.2	163.1
92.5°	1.3	30.5	87.5	144.5	163.1
95°	2.7	33.1	90.1	144.5	161.7
97.5°	5.3	34.5	92.8	144.5	159.1
100°	8.0	35.8	94.1	143.2	156.4
102.5°	9.3	37.1	94.1	141.8	153.8
105°	11.9	38.4	94.1	139.2	151.1
107.5°	13.3	39.8	94.1	136.5	147.1
110°	15.9	39.8	92.8	133.9	144.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	18.6	41.1	91.5	131.2	141.8
115°	19.9	41.1	88.8	128.6	139.2
117.5°	22.5	41.1	87.5	124.6	136.5
120°	23.9	41.1	84.8	120.6	132.6
122.5°	25.2	39.8	80.9	116.7	128.6
125°	25.2	38.4	78.2	112.7	123.3
127.5°	26.5	37.1	74.2	106.1	118.0
130°	26.5	35.8	70.3	100.8	112.7
132.5°	26.5	33.1	65.0	95.4	106.1
135°	25.2	31.8	59.7	88.8	99.4
137.5°	25.2	31.8	54.4	82.2	91.5
140°	25.2	30.5	50.4	75.6	84.8
142.5°	25.2	30.5	45.1	68.9	76.9
145°	23.9	30.5	41.1	62.3	70.3
147.5°	23.9	30.5	37.1	55.7	62.3
150°	25.2	29.2	33.1	47.7	55.7
152.5°	25.2	29.2	30.5	42.4	50.4
155°	26.5	29.2	30.5	35.8	45.1
157.5°	26.5	29.2	29.2	31.8	39.8
160°	27.8	29.2	29.2	29.2	35.8
162.5°	27.8	29.2	29.2	27.8	33.1
165°	27.8	29.2	29.2	26.5	30.5
167.5°	29.2	29.2	27.8	25.2	29.2
170°	29.2	29.2	27.8	23.9	27.8
172.5°	29.2	29.2	27.8	22.5	23.9
175°	29.2	29.2	26.5	21.2	14.6
177.5°	29.2	29.2	26.5	21.2	10.6
180°	23.9	23.9	23.9	23.9	23.9

(END OF REPORT)