

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: P189027

Luminaire Tested: **RZL-WB-80L830-1D-UNV-STD-W-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189027
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34813)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: RZL-WB-80L830-1D-UNV-STD-W-4
Description: RZL LINEAR LED FIXTURE
WITH LUMINOUS SIDES, SNAP-ON CLEAR LINEAR PRISMATIC LENS AND INTERNAL
BAFFLE
Light Source: (224) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7808.0 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.22 / 1.27
Luminous Opening: Rectangular w/ Sides (W: 0.53' x L: 3.83' x H: 0.12')
CIE Type: Semi-Direct

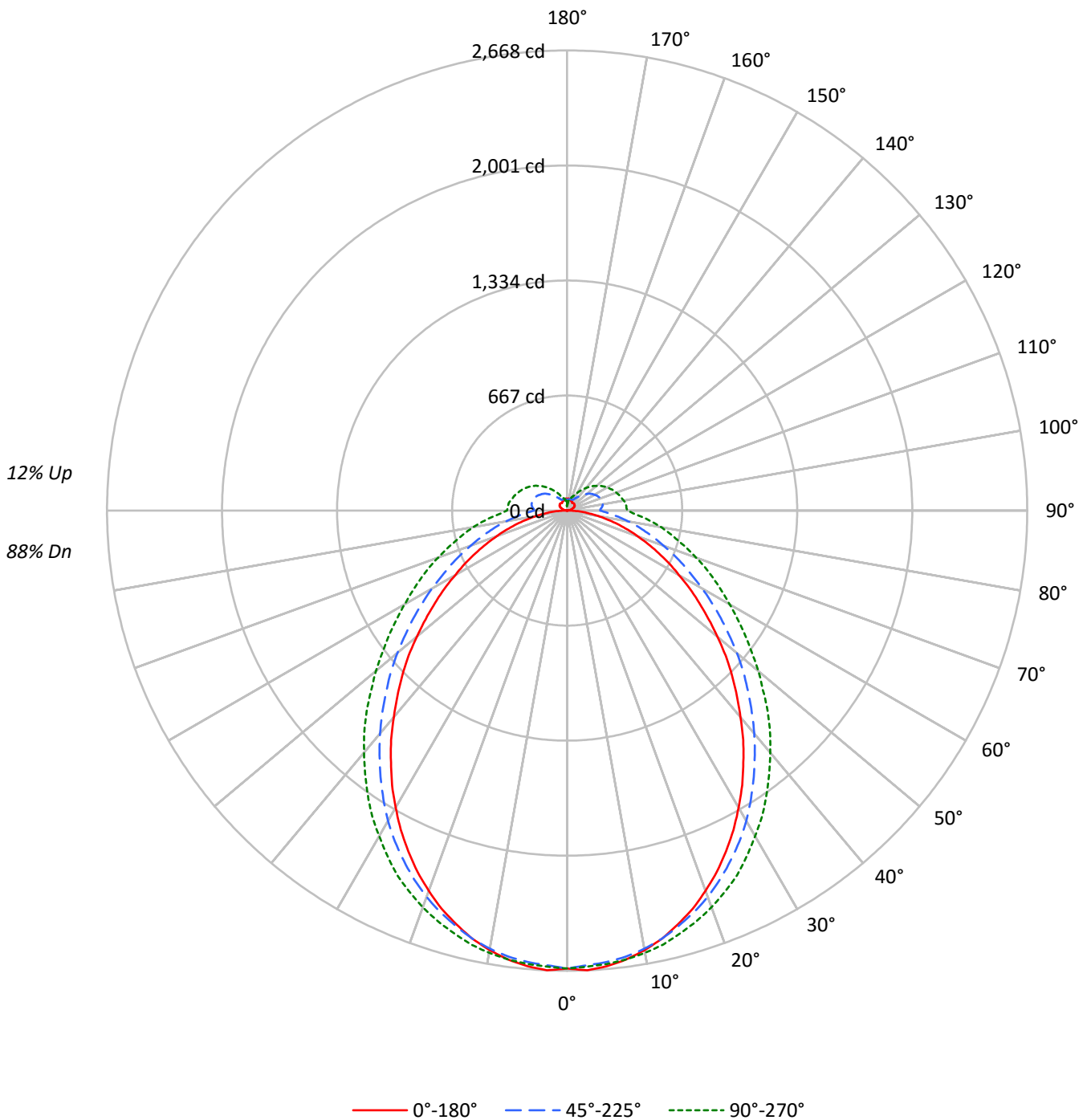
Input Watts (W): 74.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	116	116	116	116	112	112	112	112	104	104	104	97	97	97	91	91	91	88				
1	105	100	96	92	101	97	93	89	90	87	84	84	82	79	79	77	75	72				
2	96	88	81	75	92	85	78	73	79	74	70	74	70	66	69	66	63	60				
3	88	77	69	63	84	75	67	61	70	64	59	66	60	56	61	57	54	51				
4	80	68	60	53	77	66	58	52	62	56	50	59	53	48	55	50	46	44				
5	74	61	52	46	71	59	51	45	56	49	44	53	47	42	50	45	40	38				
6	68	55	47	40	66	54	46	40	51	44	38	48	42	37	45	40	36	34				
7	63	50	42	36	61	49	41	35	46	39	34	44	38	33	41	36	32	30				
8	59	46	38	32	57	45	37	31	42	35	31	40	34	30	38	33	29	27				
9	55	42	34	29	53	41	34	28	39	32	28	37	31	27	35	30	26	24				
10	52	39	31	26	50	38	31	26	36	30	25	34	29	24	33	28	24	22				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13977	13977	13977
5°	13976	13662	13665
10°	13754	13346	13367
15°	13415	12937	13009
20°	12988	12495	12637
25°	12469	11965	12214
30°	11864	11386	11669
35°	11194	10708	11126
40°	10462	10011	10525
45°	9745	9290	9919
50°	8961	8588	9273
55°	8202	7868	8667
60°	7472	7185	8150
65°	6821	6576	7774
70°	6150	6019	7447
75°	5457	5611	7202
80°	4675	5271	7205
85°	3903	5037	7236



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.5	3.2
10°-20°	706.4	9.0
20°-30°	1035.5	13.3
30°-40°	1184.9	15.2
40°-50°	1151.7	14.7
50°-60°	979.0	12.5
60°-70°	746.2	9.6
70°-80°	506.6	6.5
80°-90°	293.2	3.8
90°-100°	208.4	2.7
100°-110°	203.6	2.6
110°-120°	179.2	2.3
120°-130°	142.0	1.8
130°-140°	99.1	1.3
140°-150°	61.5	0.8
150°-160°	35.1	0.4
160°-170°	19.2	0.2
170°-180°	5.9	0.1
0°-30°	1992.4	25.5
0°-40°	3177.3	40.7
0°-60°	5308.0	68.0
0°-90°	6854.0	87.8
90°-120°	591.2	7.6
90°-150°	893.8	11.4
90°-180°	954.0	12.2
0°-180°	7808.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2655	2655	2655	2655	2655	
5°	2652	2644	2628	2644	2639	251
15°	2483	2488	2494	2534	2536	699
25°	2179	2195	2241	2311	2332	1002
35°	1781	1814	1886	1983	2015	1113
45°	1352	1389	1483	1599	1644	1042
55°	935	975	1088	1209	1260	839
65°	586	621	742	881	938	582
75°	301	341	470	607	664	321
85°	89	142	263	392	441	91
90°	0	67	191	312	349	6
95°	5	72	202	317	344	7
105°	24	86	210	304	320	25
115°	43	91	196	274	288	42
125°	54	83	169	231	247	48
135°	56	70	129	183	199	44
145°	54	67	89	132	145	34
155°	59	67	70	83	99	28
165°	67	67	67	64	72	19
175°	70	70	64	51	40	7
180°	56	56	56	56	56	



TEST NUMBER: P189027

CATALOG NUMBER: RZL-WB-80L830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2654.7	2654.7	2654.7	2654.7	2654.7
2.5°	2668.1	2657.4	2638.6	2652.0	2646.6
5°	2652.0	2643.9	2627.8	2643.9	2638.6
7.5°	2625.1	2619.8	2609.0	2627.8	2625.1
10°	2587.5	2584.8	2579.5	2606.3	2603.6
12.5°	2541.8	2541.8	2541.8	2574.1	2576.8
15°	2482.7	2488.1	2493.5	2533.8	2536.5
17.5°	2420.9	2429.0	2442.4	2490.8	2496.2
20°	2345.7	2356.4	2383.3	2439.7	2447.8
22.5°	2267.8	2281.2	2316.1	2377.9	2391.4
25°	2179.1	2195.2	2240.9	2310.8	2332.3
27.5°	2087.7	2109.2	2163.0	2235.5	2257.0
30°	1988.3	2015.2	2077.0	2154.9	2179.1
32.5°	1888.9	1918.5	1983.0	2068.9	2103.9
35°	1781.4	1813.7	1886.2	1983.0	2015.2
37.5°	1676.6	1711.6	1786.8	1891.6	1923.8
40°	1563.8	1609.5	1687.4	1794.9	1832.5
42.5°	1456.3	1499.3	1585.3	1698.1	1741.1
45°	1351.5	1389.1	1483.2	1598.7	1644.4
47.5°	1246.7	1284.4	1386.5	1496.6	1539.6
50°	1136.6	1174.2	1284.4	1402.6	1448.3
52.5°	1034.5	1072.1	1182.2	1300.5	1348.8
55°	935.1	975.4	1088.2	1209.1	1260.2
57.5°	843.7	878.6	994.2	1120.5	1171.5
60°	749.7	787.3	905.5	1034.5	1088.2
62.5°	669.0	701.3	816.8	953.9	1010.3
65°	585.8	620.7	741.6	881.3	937.7
67.5°	507.8	545.4	666.4	808.8	867.9
70°	435.3	472.9	593.8	738.9	795.3
72.5°	368.1	408.4	529.3	671.7	728.2
75°	300.9	341.2	470.2	607.2	663.7
77.5°	239.1	287.5	413.8	553.5	607.2
80°	182.7	233.8	360.0	497.1	553.5
82.5°	131.7	185.4	309.0	446.0	494.4
85°	88.7	142.4	263.3	392.3	440.7
87.5°	43.0	102.1	223.0	346.6	384.2
90°	0.0	67.2	190.8	311.7	349.3
92.5°	2.7	69.9	193.5	314.4	343.9
95°	5.4	72.5	201.5	317.1	343.9
97.5°	10.7	77.9	206.9	317.1	341.2
100°	16.1	80.6	209.6	314.4	333.2
102.5°	18.8	83.3	209.6	311.7	325.1
105°	24.2	86.0	209.6	303.6	319.7
107.5°	26.9	88.7	209.6	298.2	311.7
110°	32.2	88.7	204.2	290.2	303.6



TEST NUMBER: P189027

CATALOG NUMBER: RZL-WB-80L830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	37.6	88.7	201.5	282.1	295.6
115°	43.0	91.4	196.1	274.1	287.5
117.5°	45.7	88.7	190.8	263.3	276.8
120°	51.1	88.7	182.7	252.6	268.7
122.5°	51.1	86.0	177.3	241.8	257.9
125°	53.7	83.3	169.3	231.1	247.2
127.5°	53.7	80.6	161.2	220.3	236.4
130°	56.4	75.2	150.5	206.9	223.0
132.5°	56.4	72.5	139.7	196.1	212.3
135°	56.4	69.9	129.0	182.7	198.8
137.5°	56.4	69.9	118.2	169.3	185.4
140°	56.4	67.2	107.5	158.5	172.0
142.5°	53.7	67.2	99.4	145.1	158.5
145°	53.7	67.2	88.7	131.7	145.1
147.5°	53.7	67.2	83.3	118.2	131.7
150°	56.4	67.2	75.2	104.8	120.9
152.5°	59.1	67.2	69.9	94.0	110.2
155°	59.1	67.2	69.9	83.3	99.4
157.5°	61.8	67.2	69.9	72.5	88.7
160°	61.8	67.2	69.9	67.2	83.3
162.5°	64.5	67.2	69.9	67.2	77.9
165°	67.2	67.2	67.2	64.5	72.5
167.5°	67.2	69.9	67.2	59.1	69.9
170°	69.9	69.9	67.2	56.4	64.5
172.5°	69.9	69.9	64.5	53.7	51.1
175°	69.9	69.9	64.5	51.1	40.3
177.5°	69.9	69.9	64.5	51.1	24.2
180°	56.4	56.4	56.4	56.4	56.4

(END OF REPORT)