

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: P189002

Luminaire Tested: **RZL-NB-80L835-1D-UNV-STD-W-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189002
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34816)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: RZL-NB-80L835-1D-UNV-STD-W-4
Description: RZL LINEAR LED FIXTURE
WITH OPAQUE SIDES, CLEAR PRISMATIC LENS, INLAY AND INTERNAL BAFFLE
Light Source: (224) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7713.9 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.3 / 1.33
Luminous Opening: Rectangular (W 0.53' x L: 3.83' x H: 0')
CIE Type: Direct

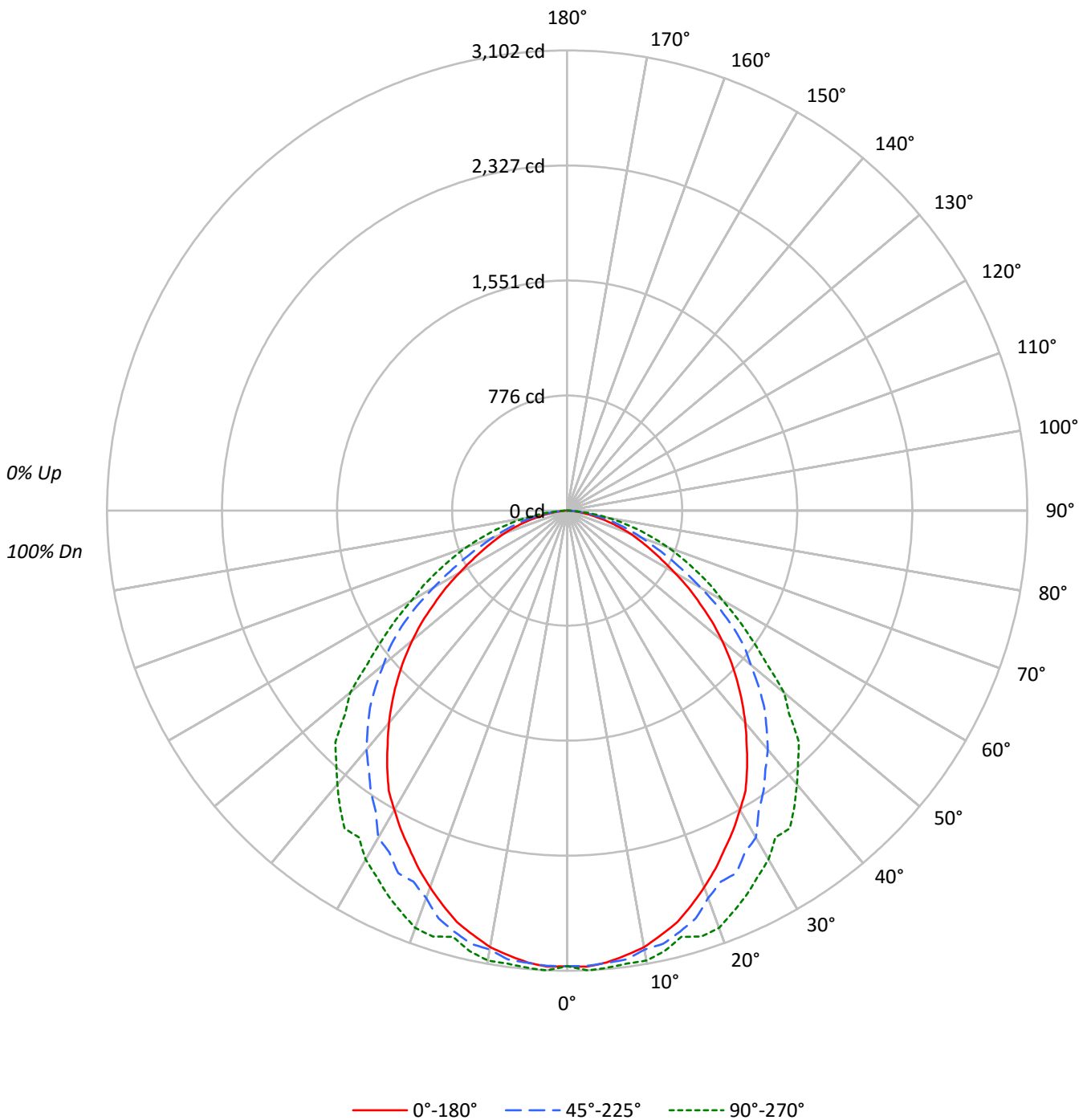
Input Watts (W): 74.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	84	73	64	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53
5	78	65	57	50	76	64	56	50	62	55	50	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	49	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	35	45	39	34	32
9	58	45	37	32	57	45	37	32	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	33	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16171	16171	16171
5°	16160	16174	16350
10°	15975	16064	16465
15°	15651	16015	16211
20°	15138	15574	16773
25°	14614	15663	16616
30°	14161	15479	16510
35°	13596	14828	16811
40°	12838	14462	16563
45°	12066	13991	16454
50°	11156	13228	15641
55°	10027	12502	13982
60°	8810	10976	12703
65°	7723	9453	11912
70°	6932	8216	11125
75°	5710	7238	10008
80°	4299	5985	8344
85°	2519	4029	5539



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.8	3.8
10°-20°	828.1	10.7
20°-30°	1238.2	16.1
30°-40°	1455.7	18.9
40°-50°	1457.0	18.9
50°-60°	1184.4	15.4
60°-70°	774.1	10.0
70°-80°	397.2	5.1
80°-90°	87.4	1.1
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°	2358.1	30.6
0°-40°	3813.8	49.4
0°-60°	6455.2	83.7
0°-90°	7713.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7713.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3072	3072	3072	3072	3072	
5°	3058	3077	3060	3074	3094	289
15°	2871	2880	2938	2977	2974	806
25°	2516	2560	2696	2805	2860	1160
35°	2115	2171	2307	2460	2616	1319
45°	1620	1704	1879	2096	2210	1248
55°	1092	1173	1362	1470	1523	981
65°	620	664	759	887	956	622
75°	281	284	356	467	492	302
85°	42	47	67	86	92	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3071.5	3071.5	3071.5	3071.5	3071.5
2.5°	3077.1	3063.2	3071.5	3107.6	3102.1
5°	3057.6	3077.1	3060.4	3074.3	3093.7
7.5°	3024.2	3054.8	3052.0	3063.2	3079.8
10°	2988.1	3002.0	3004.8	3065.9	3079.8
12.5°	2929.7	2957.5	2990.9	3013.1	3040.9
15°	2871.4	2879.7	2938.1	2977.0	2974.2
17.5°	2788.0	2818.5	2882.5	2915.8	3010.3
20°	2701.8	2751.8	2779.6	2960.3	2993.7
22.5°	2612.9	2660.1	2707.4	2910.3	2927.0
25°	2515.6	2560.0	2696.2	2804.6	2860.2
27.5°	2426.6	2471.1	2596.2	2749.1	2782.4
30°	2329.3	2382.1	2546.1	2665.7	2715.7
32.5°	2237.6	2268.2	2401.6	2573.9	2612.9
35°	2115.3	2170.9	2307.1	2460.0	2615.6
37.5°	1987.4	2045.8	2195.9	2429.4	2515.6
40°	1867.9	1940.2	2104.2	2309.9	2409.9
42.5°	1745.6	1831.8	1990.2	2207.0	2304.3
45°	1620.5	1703.9	1879.0	2095.8	2209.8
47.5°	1492.7	1576.1	1748.4	1984.7	2029.1
50°	1362.0	1442.6	1615.0	1798.4	1909.6
52.5°	1231.4	1303.6	1503.8	1634.4	1695.6
55°	1092.4	1173.0	1362.0	1470.4	1523.2
57.5°	970.1	1034.0	1203.6	1289.7	1367.6
60°	836.7	906.2	1042.4	1136.9	1206.4
62.5°	719.9	783.9	889.5	1011.8	1089.6
65°	619.9	664.3	758.8	886.7	956.2
67.5°	533.7	555.9	633.8	781.1	836.7
70°	450.3	458.6	533.7	675.5	722.7
72.5°	364.1	366.9	442.0	567.0	603.2
75°	280.7	283.5	355.8	467.0	492.0
77.5°	205.7	211.3	275.2	364.1	383.6
80°	141.8	147.3	197.4	255.7	275.2
82.5°	86.2	91.7	125.1	169.6	180.7
85°	41.7	47.3	66.7	86.2	91.7
87.5°	13.9	16.7	25.0	30.6	30.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)