

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: P188997

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P188997  
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-80L830-1D-UNV-STD-W-4  
Description: RZL LINEAR LED FIXTURE  
WITH OPAQUE SIDES, CLEAR PRISMATIC LENS, INLAY AND INTERNAL BAFFLE  
Light Source: (224) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7456.0 lumens  
Efficiency: N/A  
Efficacy: 99.7 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

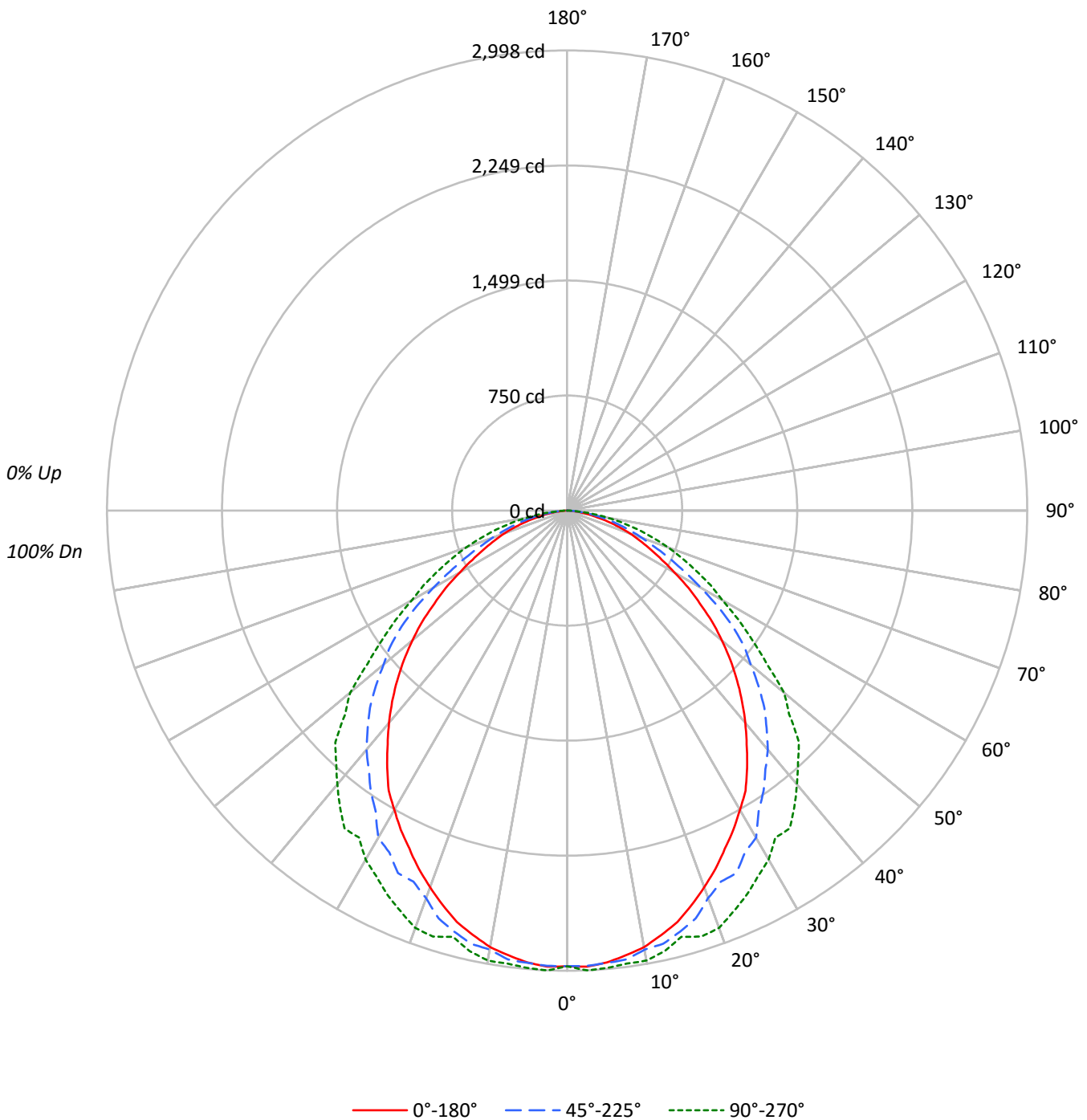
Input Watts (W): 74.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					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°	15631	15631	15631
5°	15620	15633	15804
10°	15441	15527	15915
15°	15127	15479	15670
20°	14632	15053	16212
25°	14125	15139	16060
30°	13687	14962	15958
35°	13141	14333	16250
40°	12409	13978	16010
45°	11662	13523	15903
50°	10783	12786	15119
55°	9692	12084	13515
60°	8516	10609	12278
65°	7464	9138	11514
70°	6699	7940	10753
75°	5521	6996	9673
80°	4154	5785	8065
85°	2434	3896	5358



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	282.1	3.8
10°-20°	800.4	10.7
20°-30°	1196.8	16.1
30°-40°	1407.1	18.9
40°-50°	1408.3	18.9
50°-60°	1144.8	15.4
60°-70°	748.2	10.0
70°-80°	384.0	5.1
80°-90°	84.5	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°	2279.2	30.6
0°-40°	3686.3	49.4
0°-60°	6239.4	83.7
0°-90°	7456.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7456.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2969	2969	2969	2969	2969	
5°	2955	2974	2958	2972	2990	280
15°	2775	2783	2840	2877	2875	779
25°	2432	2474	2606	2711	2765	1121
35°	2045	2098	2230	2378	2528	1275
45°	1566	1647	1816	2026	2136	1206
55°	1056	1134	1316	1421	1472	948
65°	599	642	734	857	924	601
75°	271	274	344	451	476	292
85°	40	46	64	83	89	56
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2968.8	2968.8	2968.8	2968.8	2968.8
2.5°	2974.2	2960.7	2968.8	3003.7	2998.3
5°	2955.4	2974.2	2958.0	2971.5	2990.3
7.5°	2923.1	2952.7	2950.0	2960.7	2976.9
10°	2888.2	2901.6	2904.3	2963.4	2976.9
12.5°	2831.8	2858.6	2890.9	2912.4	2939.2
15°	2775.3	2783.4	2839.8	2877.4	2874.8
17.5°	2694.7	2724.3	2786.1	2818.3	2909.7
20°	2611.5	2659.8	2686.7	2861.3	2893.6
22.5°	2525.5	2571.2	2616.8	2813.0	2829.1
25°	2431.5	2474.4	2606.1	2710.9	2764.6
27.5°	2345.5	2388.5	2509.4	2657.1	2689.4
30°	2251.4	2302.5	2461.0	2576.5	2624.9
32.5°	2162.8	2192.3	2321.3	2487.9	2525.5
35°	2044.6	2098.3	2230.0	2377.7	2528.2
37.5°	1921.0	1977.4	2122.5	2348.2	2431.5
40°	1805.5	1875.3	2033.8	2232.6	2329.4
42.5°	1687.2	1770.5	1923.7	2133.2	2227.3
45°	1566.3	1646.9	1816.2	2025.8	2135.9
47.5°	1442.8	1523.4	1689.9	1918.3	1961.3
50°	1316.5	1394.4	1561.0	1738.3	1845.8
52.5°	1190.2	1260.1	1453.5	1579.8	1638.9
55°	1055.9	1133.8	1316.5	1421.3	1472.3
57.5°	937.7	999.4	1163.3	1246.6	1321.9
60°	808.7	875.9	1007.5	1098.9	1166.0
62.5°	695.9	757.6	859.7	978.0	1053.2
65°	599.1	642.1	733.5	857.1	924.2
67.5°	515.8	537.3	612.6	755.0	808.7
70°	435.2	443.3	515.8	652.9	698.5
72.5°	352.0	354.6	427.2	548.1	583.0
75°	271.4	274.0	343.9	451.4	475.5
77.5°	198.8	204.2	266.0	352.0	370.8
80°	137.0	142.4	190.8	247.2	266.0
82.5°	83.3	88.7	120.9	163.9	174.6
85°	40.3	45.7	64.5	83.3	88.7
87.5°	13.4	16.1	24.2	29.6	29.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)