

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: P189007

Luminaire Tested: **RZL-NB-80L840-1D-UNV-STD-W-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189007
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-80L840-1D-UNV-STD-W-4
Description: RZL LINEAR LED FIXTURE
WITH OPAQUE SIDES, CLEAR PRISMATIC LENS, INLAY AND INTERNAL BAFFLE
Light Source: (224) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7902.0 lumens
Efficiency: N/A
Efficacy: 105.6 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

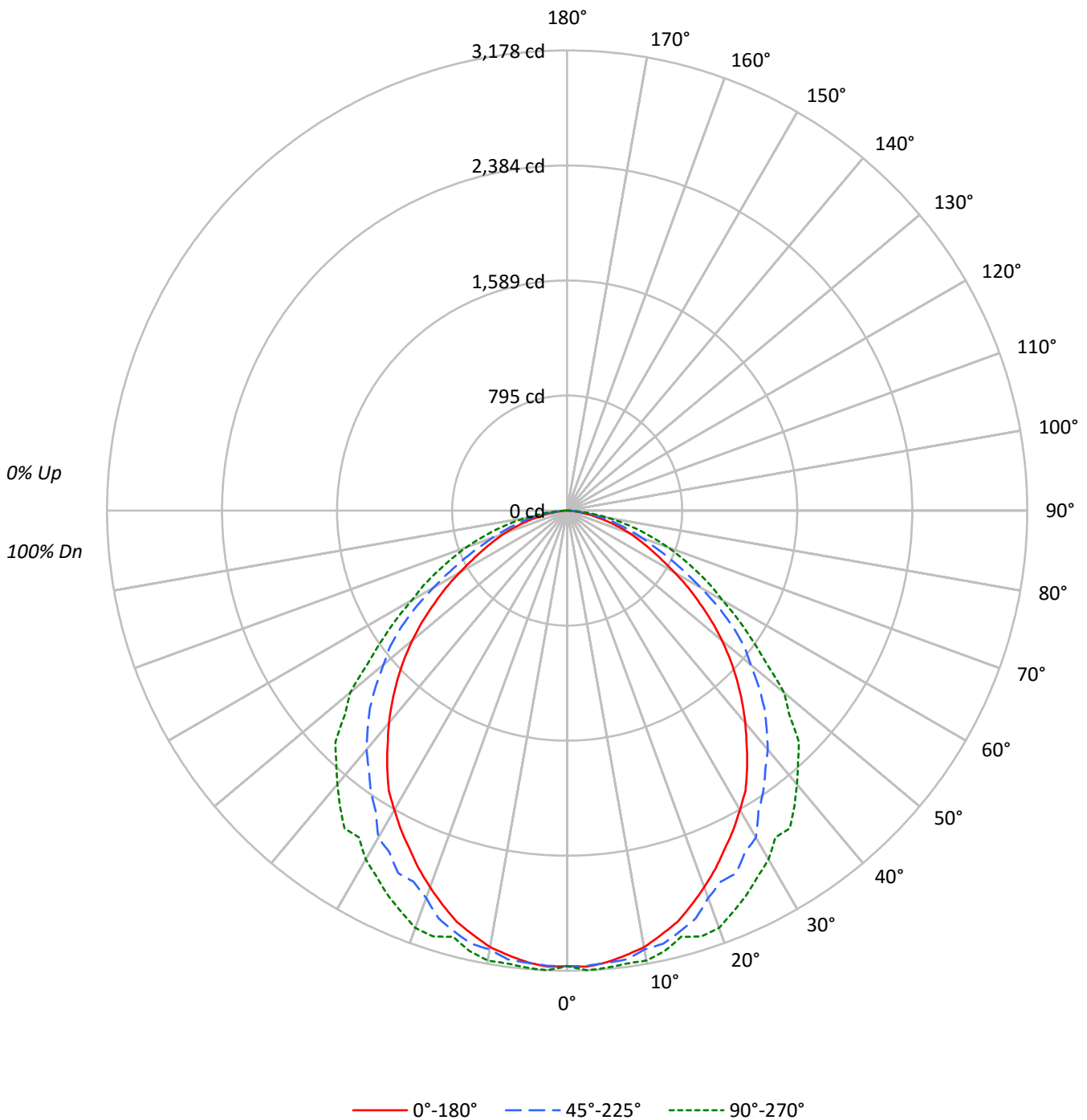
Input Watts (W): 74.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	16566	16566	16566
5°	16553	16569	16749
10°	16365	16456	16867
15°	16033	16405	16607
20°	15507	15954	17182
25°	14970	16045	17021
30°	14506	15856	16912
35°	13927	15190	17221
40°	13151	14815	16967
45°	12360	14332	16855
50°	11428	13550	16023
55°	10272	12807	14323
60°	9025	11244	13013
65°	7911	9684	12203
70°	7101	8416	11396
75°	5850	7415	10252
80°	4402	6131	8547
85°	2579	4126	5678



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.9	3.8
10°-20°	848.3	10.7
20°-30°	1268.4	16.1
30°-40°	1491.2	18.9
40°-50°	1492.5	18.9
50°-60°	1213.3	15.4
60°-70°	792.9	10.0
70°-80°	406.9	5.1
80°-90°	89.5	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°	2415.6	30.6
0°-40°	3906.8	49.4
0°-60°	6612.6	83.7
0°-90°	7902.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7902.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3146	3146	3146	3146	3146	
5°	3132	3152	3135	3149	3169	297
15°	2941	2950	3010	3050	3047	826
25°	2577	2622	2762	2873	2930	1189
35°	2167	2224	2363	2520	2679	1352
45°	1660	1746	1925	2147	2264	1278
55°	1119	1202	1395	1506	1560	1005
65°	635	680	777	908	980	637
75°	288	290	364	478	504	309
85°	43	48	68	88	94	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3146.4	3146.4	3146.4	3146.4	3146.4
2.5°	3152.1	3137.8	3146.4	3183.4	3177.7
5°	3132.1	3152.1	3135.0	3149.2	3169.2
7.5°	3098.0	3129.3	3126.5	3137.8	3154.9
10°	3061.0	3075.2	3078.0	3140.7	3154.9
12.5°	3001.2	3029.6	3063.8	3086.6	3115.1
15°	2941.4	2949.9	3009.7	3049.6	3046.7
17.5°	2855.9	2887.3	2952.8	2986.9	3083.7
20°	2767.7	2818.9	2847.4	3032.5	3066.7
22.5°	2676.6	2725.0	2773.4	2981.2	2998.3
25°	2576.9	2622.5	2762.0	2873.0	2930.0
27.5°	2485.8	2531.3	2659.5	2816.1	2850.3
30°	2386.1	2440.2	2608.2	2730.7	2781.9
32.5°	2292.2	2323.5	2460.2	2636.7	2676.6
35°	2166.9	2223.8	2363.3	2520.0	2679.4
37.5°	2035.9	2095.7	2249.5	2488.6	2576.9
40°	1913.5	1987.5	2155.5	2366.2	2468.7
42.5°	1788.2	1876.4	2038.7	2260.8	2360.5
45°	1660.0	1745.5	1924.8	2146.9	2263.7
47.5°	1529.1	1614.5	1791.0	2033.0	2078.6
50°	1395.2	1477.8	1654.3	1842.3	1956.2
52.5°	1261.4	1335.4	1540.4	1674.3	1736.9
55°	1119.0	1201.6	1395.2	1506.3	1560.4
57.5°	993.7	1059.2	1232.9	1321.2	1400.9
60°	857.1	928.3	1067.8	1164.6	1235.8
62.5°	737.5	803.0	911.2	1036.5	1116.2
65°	635.0	680.5	777.3	908.3	979.5
67.5°	546.7	569.5	649.2	800.1	857.1
70°	461.3	469.8	546.7	691.9	740.3
72.5°	373.0	375.9	452.7	580.9	617.9
75°	287.6	290.4	364.5	478.4	504.0
77.5°	210.7	216.4	281.9	373.0	392.9
80°	145.2	150.9	202.2	262.0	281.9
82.5°	88.3	94.0	128.1	173.7	185.1
85°	42.7	48.4	68.3	88.3	94.0
87.5°	14.2	17.1	25.6	31.3	31.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)