

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: P189054

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P189054  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34815)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: RZL-WF-40L830-1D-UNV-STD-W-4  
Description: RZL LINEAR LED FIXTURE  
WITH PERFORATED SIDES, 11-CELL LOUVER AND CURVED SMOOTH FROSTED LENS  
Light Source: (112) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3900.7 lumens  
Efficiency: N/A  
Efficacy: 112.4 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.27 / 1.33  
Luminous Opening: Rectangular (W 0.53' x L: 3.83' x H: 0')  
CIE Type: Direct

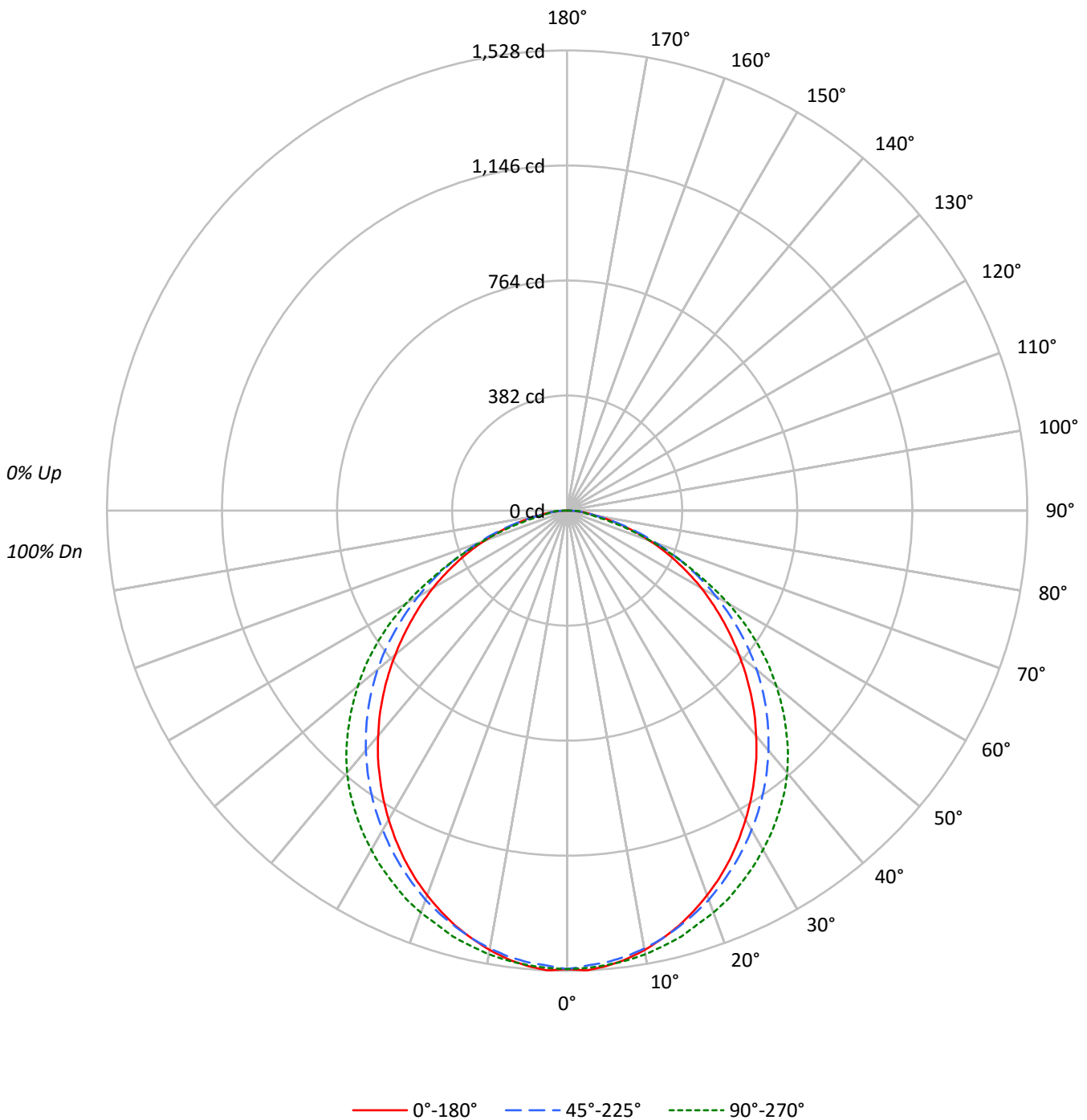
Input Watts (W): 34.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93		95	92	90		91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77		83	79	76		80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65		74	69	64		71	67	63	61
4	84	72	64	57	82	71	63	57	68	61	56		66	60	55		64	59	55	52
5	77	65	56	49	75	64	55	49	61	54	49		59	53	48		58	52	48	46
6	71	58	50	43	69	57	49	43	56	48	43		54	47	42		52	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38		49	43	38		48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34		45	39	34		44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31		42	35	31		41	35	30	29
10	54	41	33	28	53	41	33	28	40	33	28		39	32	28		38	32	28	26

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	8017	8017	8017
5°	8020	7957	8006
10°	7920	7892	7999
15°	7785	7800	7981
20°	7615	7705	7958
25°	7425	7579	7934
30°	7204	7447	7908
35°	6967	7309	7873
40°	6709	7148	7815
45°	6426	6961	7654
50°	6101	6732	7429
55°	5762	6409	7093
60°	5420	6022	6512
65°	4987	5534	5616
70°	4484	4832	4606
75°	3843	3977	3328
80°	2983	2944	2259
85°	2573	2652	2972



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.5	3.7
10°-20°	406.2	10.4
20°-30°	605.7	15.5
30°-40°	716.7	18.4
40°-50°	724.3	18.6
50°-60°	623.7	16.0
60°-70°	430.3	11.0
70°-80°	200.3	5.1
80°-90°	49.9	1.3
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°	1155.4	29.6
0°-40°	1872.2	48.0
0°-60°	3220.2	82.6
0°-90°	3900.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3900.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1523	1523	1523	1523	1523	
5°	1518	1512	1506	1518	1515	144
15°	1428	1427	1431	1458	1464	402
25°	1278	1285	1305	1350	1366	588
35°	1084	1098	1137	1194	1225	678
45°	863	886	935	995	1028	665
55°	628	653	698	742	773	562
65°	400	419	444	448	451	397
75°	189	198	196	174	164	201
85°	43	44	44	48	49	49
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1522.8	1522.8	1522.8	1522.8	1522.8
2.5°	1528.1	1521.4	1512.1	1522.8	1520.1
5°	1517.5	1512.1	1505.5	1517.5	1514.8
7.5°	1502.8	1497.5	1493.5	1508.1	1506.8
10°	1481.5	1478.9	1476.2	1494.8	1496.2
12.5°	1456.3	1454.9	1456.3	1477.6	1480.2
15°	1428.3	1427.0	1431.0	1457.6	1464.3
17.5°	1395.1	1396.4	1404.4	1433.7	1440.3
20°	1359.2	1361.9	1375.2	1409.7	1420.4
22.5°	1320.6	1324.6	1340.6	1380.5	1396.4
25°	1278.1	1284.7	1304.7	1349.9	1365.8
27.5°	1232.8	1240.8	1266.1	1314.0	1335.3
30°	1185.0	1195.6	1224.9	1276.7	1300.7
32.5°	1135.8	1147.7	1182.3	1236.8	1264.8
35°	1083.9	1098.5	1137.1	1194.3	1224.9
37.5°	1032.0	1048.0	1089.2	1150.4	1183.6
40°	976.2	993.5	1040.0	1102.5	1137.1
42.5°	921.6	940.3	988.1	1052.0	1085.2
45°	863.1	885.7	934.9	994.8	1028.0
47.5°	804.6	827.2	879.1	933.6	969.5
50°	744.8	770.0	821.9	872.4	907.0
52.5°	686.2	714.2	762.1	808.6	843.2
55°	627.7	653.0	698.2	742.1	772.7
57.5°	570.5	594.5	635.7	672.9	698.2
60°	514.7	536.0	571.9	599.8	618.4
62.5°	457.5	478.8	508.0	524.0	533.3
65°	400.3	418.9	444.2	448.2	450.8
67.5°	345.8	363.1	379.0	372.4	373.7
70°	291.3	305.9	313.9	300.6	299.2
72.5°	239.4	250.0	254.0	235.4	228.7
75°	188.9	198.2	195.5	174.2	163.6
77.5°	141.0	149.0	142.3	119.7	106.4
80°	98.4	102.4	97.1	78.5	74.5
82.5°	69.2	69.2	65.2	63.8	62.5
85°	42.6	43.9	43.9	47.9	49.2
87.5°	18.6	21.3	23.9	33.2	35.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)