

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: P188994

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188994
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-40L830-1D-UNV-STD-W-4
Description: RZL LINEAR LED FIXTURE
WITH OPAQUE SIDES, CLEAR PRISMATIC LENS, INLAY AND INTERNAL BAFFLE
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3678.0 lumens
Efficiency: N/A
Efficacy: 106.0 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

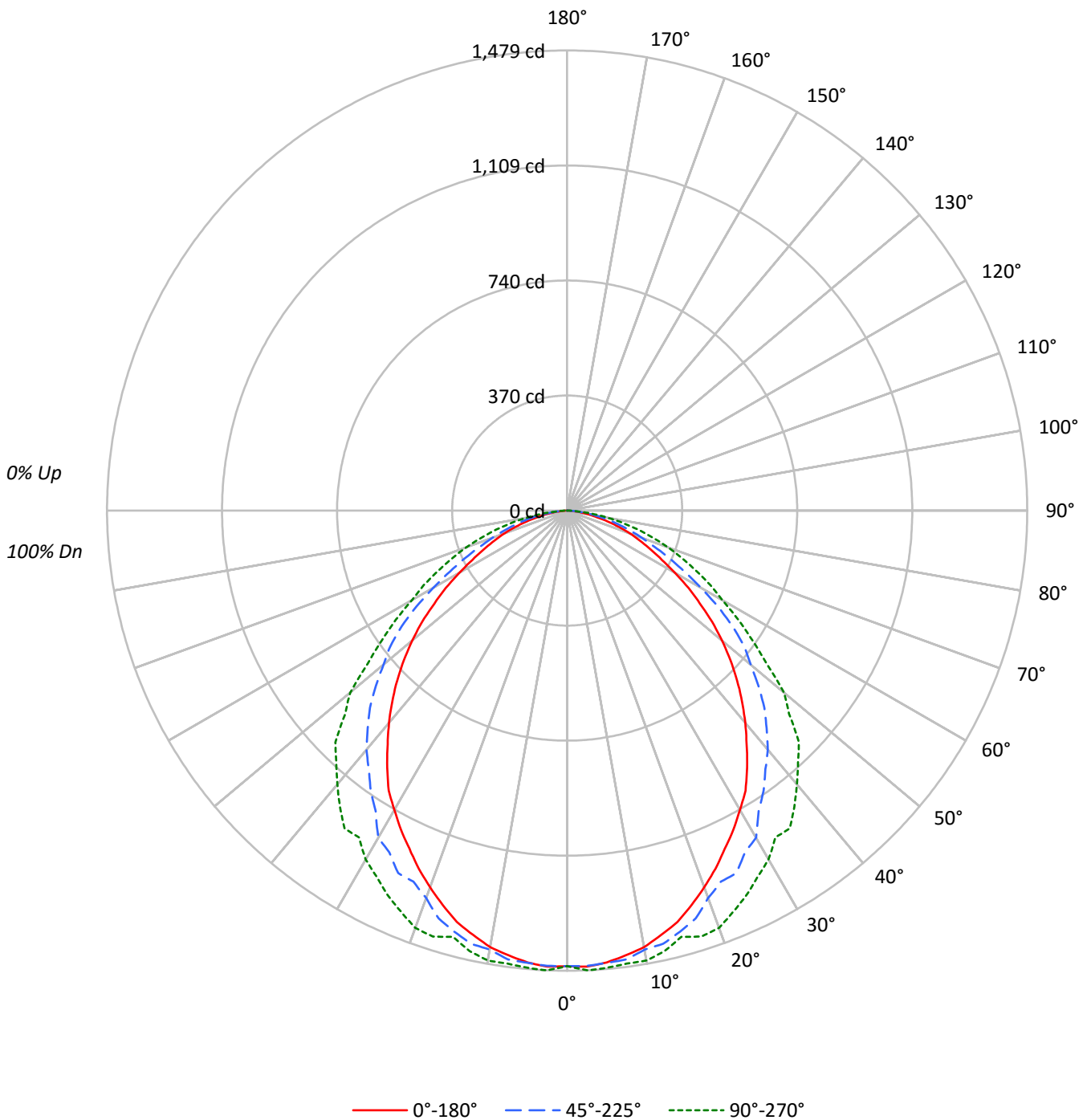
Input Watts (W): 34.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	7711	7711	7711
5°	7705	7712	7796
10°	7617	7659	7851
15°	7463	7636	7730
20°	7218	7425	7998
25°	6968	7468	7923
30°	6752	7380	7872
35°	6483	7070	8016
40°	6121	6896	7898
45°	5753	6671	7845
50°	5319	6307	7458
55°	4781	5961	6667
60°	4200	5233	6057
65°	3681	4507	5680
70°	3305	3918	5305
75°	2724	3450	4772
80°	2050	2853	3978
85°	1202	1921	2640



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.1	3.8
10°-20°	394.8	10.7
20°-30°	590.4	16.1
30°-40°	694.1	18.9
40°-50°	694.7	18.9
50°-60°	564.7	15.4
60°-70°	369.1	10.0
70°-80°	189.4	5.1
80°-90°	41.7	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°	1124.3	30.6
0°-40°	1818.4	49.4
0°-60°	3077.9	83.7
0°-90°	3678.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3678.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1464	1464	1464	1464	1464	
5°	1458	1467	1459	1466	1475	138
15°	1369	1373	1401	1419	1418	384
25°	1199	1221	1286	1337	1364	553
35°	1009	1035	1100	1173	1247	629
45°	773	812	896	999	1054	595
55°	521	559	649	701	726	468
65°	296	317	362	423	456	297
75°	134	135	170	223	235	144
85°	20	22	32	41	44	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1464.5	1464.5	1464.5	1464.5	1464.5
2.5°	1467.1	1460.5	1464.5	1481.7	1479.1
5°	1457.9	1467.1	1459.2	1465.8	1475.1
7.5°	1442.0	1456.5	1455.2	1460.5	1468.5
10°	1424.7	1431.4	1432.7	1461.8	1468.5
12.5°	1396.9	1410.1	1426.1	1436.7	1449.9
15°	1369.1	1373.0	1400.9	1419.4	1418.1
17.5°	1329.3	1343.9	1374.4	1390.3	1435.3
20°	1288.2	1312.1	1325.3	1411.5	1427.4
22.5°	1245.8	1268.3	1290.9	1387.6	1395.6
25°	1199.4	1220.6	1285.6	1337.3	1363.8
27.5°	1157.0	1178.2	1237.9	1310.7	1326.7
30°	1110.6	1135.8	1214.0	1271.0	1294.8
32.5°	1066.9	1081.5	1145.1	1227.3	1245.8
35°	1008.6	1035.1	1100.0	1172.9	1247.1
37.5°	947.6	975.4	1047.0	1158.3	1199.4
40°	890.6	925.1	1003.3	1101.3	1149.1
42.5°	832.3	873.4	948.9	1052.3	1098.7
45°	772.7	812.4	895.9	999.3	1053.6
47.5°	711.7	751.5	833.6	946.3	967.5
50°	649.4	687.8	770.0	857.5	910.5
52.5°	587.1	621.6	717.0	779.3	808.4
55°	520.9	559.3	649.4	701.1	726.3
57.5°	462.5	493.0	573.9	615.0	652.1
60°	398.9	432.1	497.0	542.1	575.2
62.5°	343.3	373.7	424.1	482.4	519.5
65°	295.5	316.8	361.8	422.8	455.9
67.5°	254.5	265.1	302.2	372.4	398.9
70°	214.7	218.7	254.5	322.1	344.6
72.5°	173.6	174.9	210.7	270.4	287.6
75°	133.9	135.2	169.6	222.7	234.6
77.5°	98.1	100.7	131.2	173.6	182.9
80°	67.6	70.2	94.1	121.9	131.2
82.5°	41.1	43.7	59.6	80.8	86.1
85°	19.9	22.5	31.8	41.1	43.7
87.5°	6.6	8.0	11.9	14.6	14.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)