

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: P189003

Luminaire Tested: **RZL-NB-30L840-1D-UNV-STD-W-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189003
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-30L840-1D-UNV-STD-W-4
Description: RZL LINEAR LED FIXTURE
WITH OPAQUE SIDES, CLEAR PRISMATIC LENS, INLAY AND INTERNAL BAFFLE
Light Source: (112) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2941.0 lumens
Efficiency: N/A
Efficacy: 118.6 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

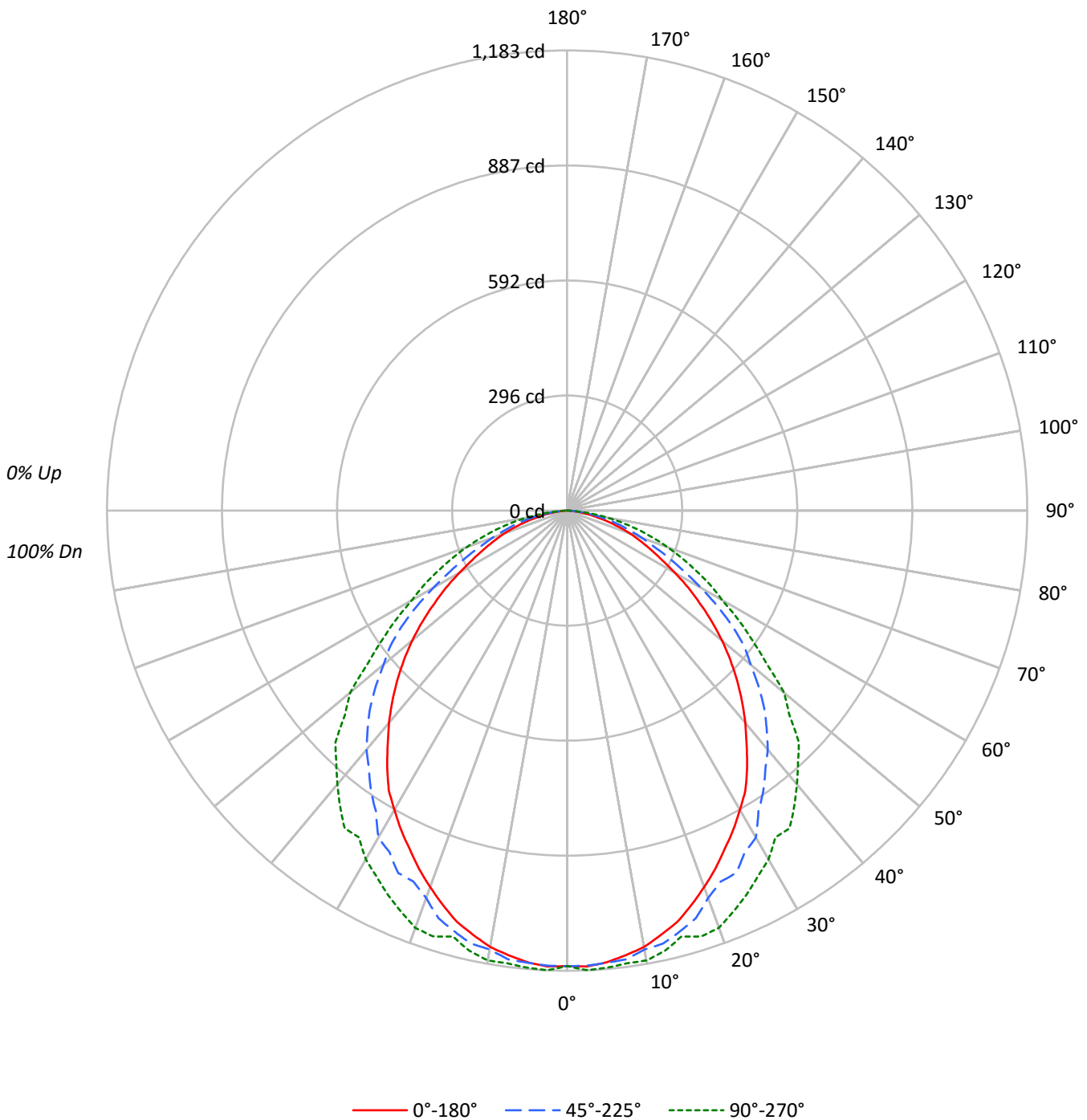
Input Watts (W): 24.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6165	6165	6165
5°	6161	6167	6234
10°	6090	6125	6277
15°	5967	6106	6181
20°	5772	5938	6395
25°	5572	5972	6335
30°	5399	5901	6295
35°	5184	5653	6409
40°	4895	5513	6315
45°	4600	5334	6273
50°	4253	5043	5964
55°	3823	4767	5330
60°	3359	4185	4843
65°	2944	3604	4542
70°	2643	3133	4241
75°	2177	2758	3816
80°	1637	2280	3181
85°	960	1534	2114



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.3	3.8
10°-20°	315.7	10.7
20°-30°	472.1	16.1
30°-40°	555.0	18.9
40°-50°	555.5	18.9
50°-60°	451.6	15.4
60°-70°	295.1	10.0
70°-80°	151.4	5.1
80°-90°	33.3	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°	899.0	30.6
0°-40°	1454.1	49.4
0°-60°	2461.1	83.7
0°-90°	2941.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2941.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1171	1171	1171	1171	1171	
5°	1166	1173	1167	1172	1180	110
15°	1095	1098	1120	1135	1134	307
25°	959	976	1028	1069	1090	442
35°	806	828	880	938	997	503
45°	618	650	716	799	842	476
55°	416	447	519	561	581	374
65°	236	253	289	338	365	237
75°	107	108	136	178	188	115
85°	16	18	25	33	35	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1171.0	1171.0	1171.0	1171.0	1171.0
2.5°	1173.2	1167.9	1171.0	1184.8	1182.7
5°	1165.7	1173.2	1166.8	1172.1	1179.5
7.5°	1153.0	1164.7	1163.6	1167.9	1174.2
10°	1139.2	1144.5	1145.6	1168.9	1174.2
12.5°	1117.0	1127.6	1140.3	1148.8	1159.4
15°	1094.7	1097.9	1120.2	1135.0	1133.9
17.5°	1062.9	1074.6	1099.0	1111.7	1147.7
20°	1030.1	1049.2	1059.8	1128.6	1141.4
22.5°	996.2	1014.2	1032.2	1109.6	1115.9
25°	959.1	976.0	1028.0	1069.3	1090.5
27.5°	925.2	942.1	989.8	1048.1	1060.8
30°	888.1	908.2	970.7	1016.3	1035.4
32.5°	853.1	864.8	915.6	981.3	996.2
35°	806.5	827.7	879.6	937.9	997.2
37.5°	757.7	780.0	837.2	926.2	959.1
40°	712.2	739.7	802.2	880.7	918.8
42.5°	665.5	698.4	758.8	841.4	878.5
45°	617.8	649.6	716.4	799.1	842.5
47.5°	569.1	600.9	666.6	756.7	773.6
50°	519.3	550.0	615.7	685.7	728.1
52.5°	469.5	497.0	573.3	623.1	646.5
55°	416.5	447.2	519.3	560.6	580.7
57.5°	369.9	394.2	458.9	491.7	521.4
60°	319.0	345.5	397.4	433.4	459.9
62.5°	274.5	298.9	339.1	385.8	415.4
65°	236.3	253.3	289.3	338.1	364.6
67.5°	203.5	212.0	241.6	297.8	319.0
70°	171.7	174.9	203.5	257.5	275.5
72.5°	138.8	139.9	168.5	216.2	230.0
75°	107.0	108.1	135.6	178.0	187.6
77.5°	78.4	80.5	104.9	138.8	146.2
80°	54.0	56.2	75.2	97.5	104.9
82.5°	32.9	35.0	47.7	64.6	68.9
85°	15.9	18.0	25.4	32.9	35.0
87.5°	5.3	6.4	9.5	11.7	11.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)