

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: P234547

Luminaire Tested: **CTA-F-0100-30L840-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234547
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-282-16)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: CTA-F-0100-30L840-UNV-12
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
3000 LUMENS, 0% UPLIGHT, 100% DOWNLIGHT
Light Source: (1008) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9342.5 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.23 / 1.36
Luminous Opening: Rectangular (W 0.42' x L: 12' x H: 0')
CIE Type: Direct

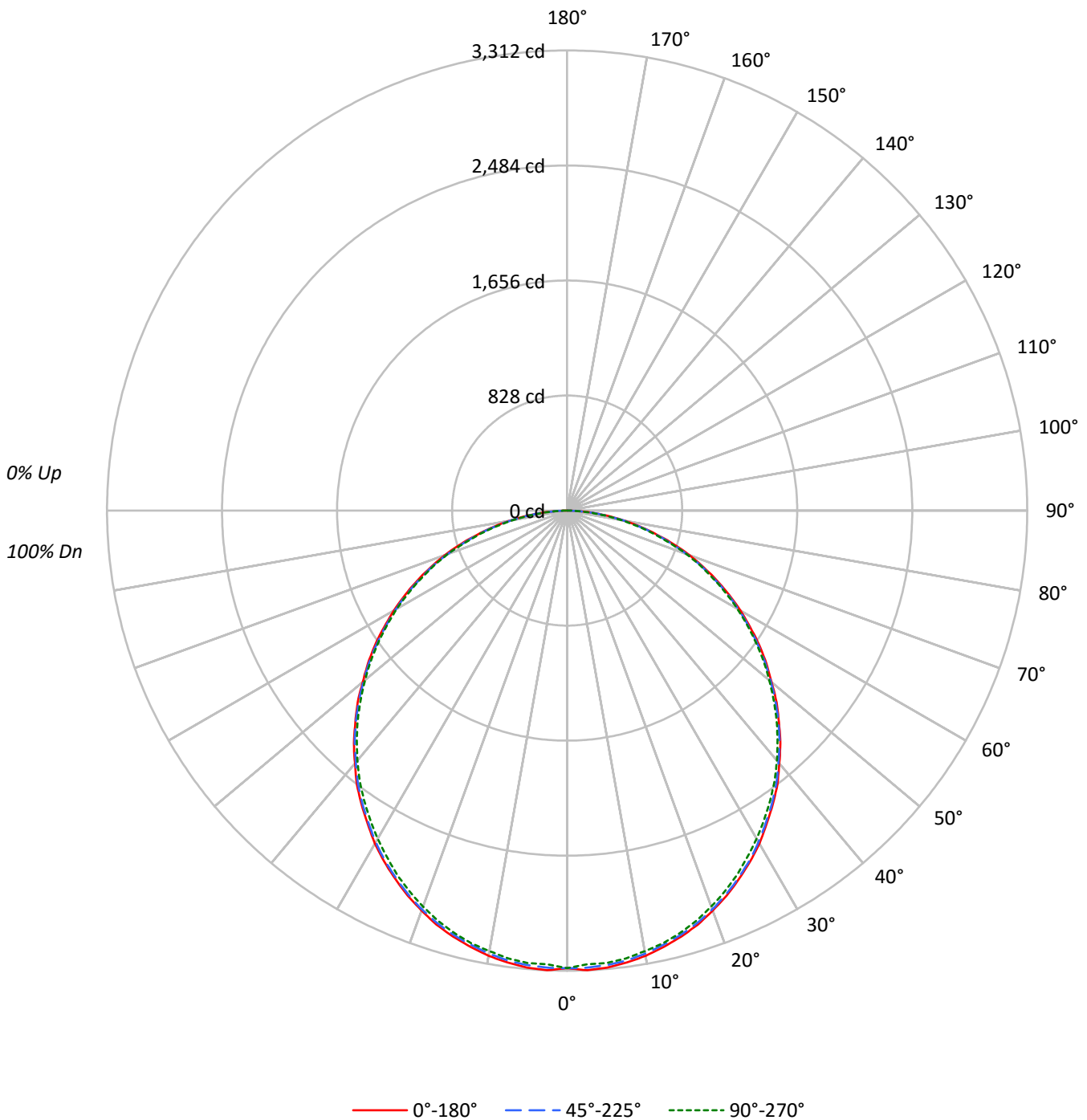
Input Watts (W): 93.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P234547

CATALOG NUMBER: CTA-F-0100-30L840-UNV-12

Luminous Intensity Polar Plot





TEST NUMBER: P234547

CATALOG NUMBER: CTA-F-0100-30L840-UNV-12

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	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83					83			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	62	56	52	49					49			
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43					43			
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7089	7089	7089
5°	7136	7096	7063
10°	7111	7078	7038
15°	7073	7046	7012
20°	7018	6997	6948
25°	6950	6928	6870
30°	6878	6848	6780
35°	6782	6758	6693
40°	6676	6651	6599
45°	6562	6544	6488
50°	6430	6410	6359
55°	6334	6277	6231
60°	6200	6135	6095
65°	6058	5965	5918
70°	5889	5754	5735
75°	5569	5468	5366
80°	5154	5079	4889
85°	4606	4305	3927



TEST NUMBER: P234547

CATALOG NUMBER: CTA-F-0100-30L840-UNV-12

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.5	3.3
10°-20°	889.8	9.5
20°-30°	1339.2	14.3
30°-40°	1601.7	17.1
40°-50°	1651.8	17.7
50°-60°	1493.5	16.0
60°-70°	1160.6	12.4
70°-80°	695.4	7.4
80°-90°	199.0	2.1
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°	2540.5	27.2
0°-40°	4142.2	44.3
0°-60°	7287.5	78.0
0°-90°	9342.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9342.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3293	3293	3293	3293	3293	
5°	3302	3272	3284	3275	3269	314
15°	3174	3143	3162	3152	3146	895
25°	2926	2902	2917	2896	2893	1349
35°	2581	2556	2572	2550	2547	1615
45°	2156	2146	2150	2128	2131	1664
55°	1688	1679	1673	1660	1660	1507
65°	1189	1177	1171	1162	1162	1176
75°	670	660	657	651	645	710
85°	186	184	174	165	159	210
90°	0	0	0	0	0	



TEST NUMBER: P234547

CATALOG NUMBER: CTA-F-0100-30L840-UNV-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3293.1	3293.1	3293.1	3293.1	3293.1
2.5°	3311.5	3280.9	3293.1	3287.0	3268.7
5°	3302.3	3271.7	3284.0	3274.8	3268.7
7.5°	3280.9	3250.3	3265.6	3256.4	3250.3
10°	3253.4	3222.8	3238.1	3228.9	3219.7
12.5°	3216.7	3186.1	3201.4	3192.2	3189.2
15°	3173.9	3143.3	3161.6	3152.5	3146.4
17.5°	3125.0	3094.4	3112.7	3106.6	3094.4
20°	3063.8	3036.3	3054.6	3039.3	3033.2
22.5°	2999.6	2975.1	2990.4	2969.0	2966.0
25°	2926.2	2901.7	2917.0	2895.6	2892.6
27.5°	2849.8	2825.3	2840.6	2819.2	2810.0
30°	2767.2	2739.7	2755.0	2733.6	2727.5
32.5°	2672.4	2651.0	2663.2	2644.9	2638.8
35°	2580.7	2556.2	2571.5	2550.1	2547.1
37.5°	2485.9	2461.4	2473.7	2449.2	2452.3
40°	2375.8	2357.5	2366.7	2345.2	2348.3
42.5°	2271.9	2256.6	2262.7	2238.2	2241.3
45°	2155.7	2146.5	2149.6	2128.2	2131.2
47.5°	2045.6	2030.3	2033.4	2015.0	2015.0
50°	1920.2	1914.1	1914.1	1898.8	1898.8
52.5°	1807.1	1797.9	1794.9	1779.6	1782.6
55°	1687.8	1678.7	1672.6	1660.3	1660.3
57.5°	1562.5	1556.4	1547.2	1535.0	1538.0
60°	1440.2	1434.1	1424.9	1412.7	1415.7
62.5°	1314.8	1305.6	1299.5	1293.4	1287.3
65°	1189.4	1177.2	1171.1	1161.9	1161.9
67.5°	1061.0	1051.8	1045.7	1039.6	1039.6
70°	935.7	923.4	914.2	911.2	911.2
72.5°	804.2	791.9	782.8	782.8	770.5
75°	669.6	660.5	657.4	651.3	645.2
77.5°	544.3	535.1	532.0	525.9	519.8
80°	415.8	412.8	409.7	400.6	394.4
82.5°	299.7	296.6	290.5	281.3	275.2
85°	186.5	183.5	174.3	165.1	159.0
87.5°	79.5	76.4	64.2	55.0	52.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)