

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: P256997

Luminaire Tested: **HGL-S-BF-30L840-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256997
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1708-204-8)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: HGL-S-BF-30L840-UNV-12
Description: HUGO 12 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH FROSTED LENS
Light Source: (504) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8155.4 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.25 / 1.28
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 12' x H: 0.01')
CIE Type: Direct

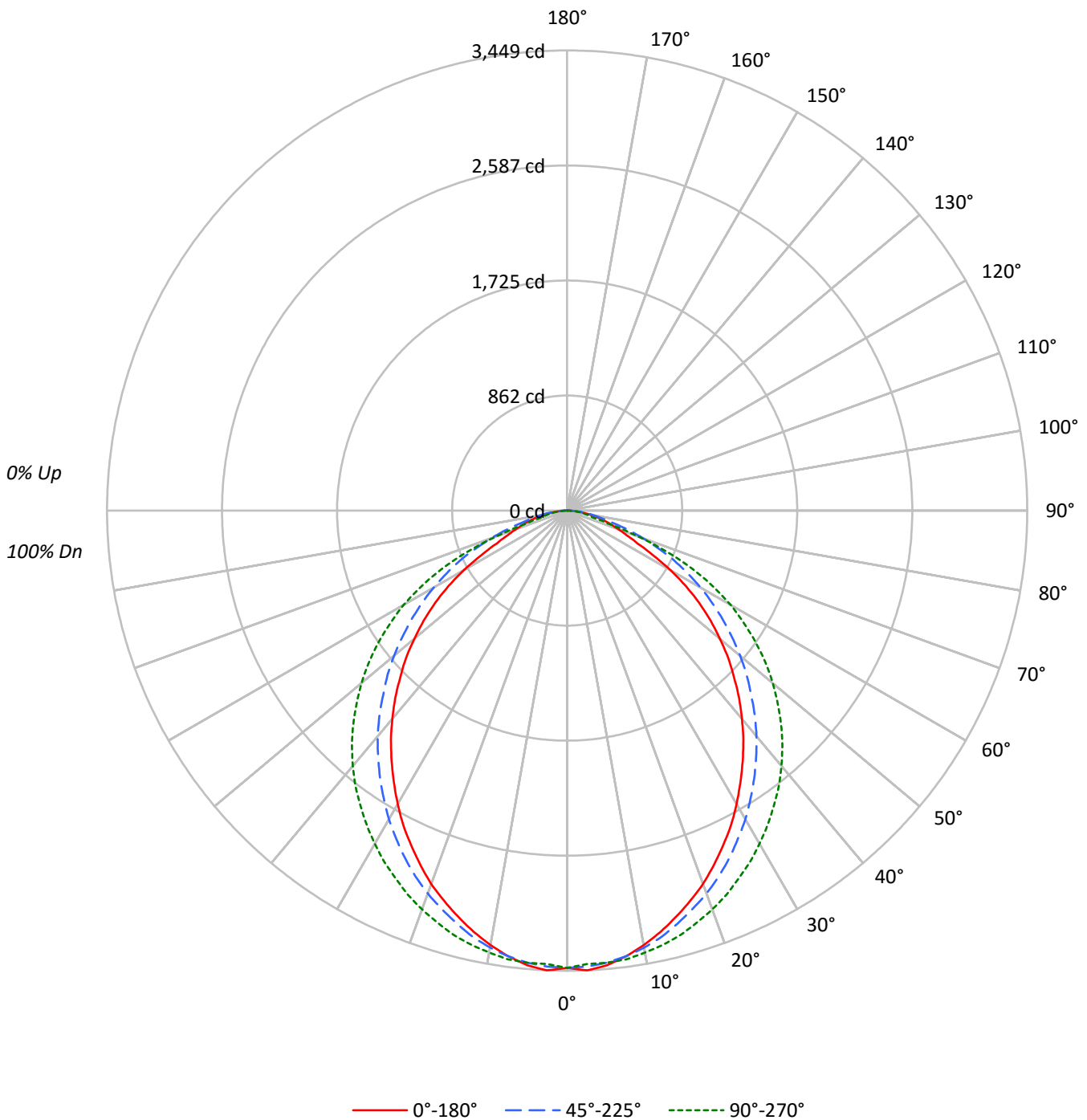
Input Watts (W): 65.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73
3	92	82	75	68	90	81	74	68	78	72	67	75	70	66	73	68	64	62
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	54	50	59	53	49	47
6	72	59	51	45	70	59	50	45	57	50	44	55	49	44	54	48	43	41
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37
8	63	49	41	36	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13414	13414	13414
5°	13440	13330	13316
10°	13142	13147	13268
15°	12771	12870	13183
20°	12403	12579	13042
25°	11945	12235	12875
30°	11473	11862	12714
35°	10951	11430	12522
40°	10402	10991	12315
45°	9783	10459	12029
50°	9088	9937	11647
55°	8246	9304	11099
60°	7013	8583	10299
65°	5373	7674	8828
70°	4653	6389	5713
75°	4286	4745	2670
80°	3827	3807	2282
85°	3230	3234	1705



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.1	3.9
10°-20°	903.2	11.1
20°-30°	1324.9	16.2
30°-40°	1536.4	18.8
40°-50°	1521.2	18.7
50°-60°	1283.6	15.7
60°-70°	831.9	10.2
70°-80°	336.5	4.1
80°-90°	93.4	1.1
90°-100°	2.2	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°	2550.2	31.3
0°-40°	4086.7	50.1
0°-60°	6891.5	84.5
0°-90°	8153.2	100.0
90°-120°	2.2	0.0
90°-150°	2.2	0.0
90°-180°	2.0	0.0
0°-180°	8155.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3427	3427	3427	3427	3427	
5°	3421	3386	3402	3399	3402	323
15°	3152	3137	3203	3260	3291	888
25°	2767	2767	2874	2963	3042	1274
35°	2293	2309	2445	2574	2701	1434
45°	1769	1807	1949	2113	2268	1365
55°	1210	1273	1425	1592	1728	1075
65°	581	673	884	992	1042	603
75°	284	297	351	287	205	302
85°	73	85	98	79	57	80
90°	0	13	22	16	0	4
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3427.1	3427.1	3427.1	3427.1	3427.1
2.5°	3449.3	3411.4	3420.8	3414.5	3401.9
5°	3420.8	3386.1	3401.9	3398.7	3401.9
7.5°	3370.3	3341.9	3370.3	3379.8	3392.4
10°	3307.1	3285.0	3326.1	3348.2	3364.0
12.5°	3234.5	3215.5	3272.4	3307.1	3332.4
15°	3152.3	3136.6	3202.9	3259.7	3291.3
17.5°	3067.1	3054.4	3130.2	3202.9	3237.6
20°	2978.6	2966.0	3054.4	3127.1	3180.8
22.5°	2874.4	2868.1	2969.1	3045.0	3117.6
25°	2767.0	2767.0	2874.4	2962.8	3041.8
27.5°	2659.6	2659.6	2773.3	2871.2	2969.1
30°	2539.6	2549.0	2672.2	2779.6	2883.9
32.5°	2416.4	2432.2	2558.5	2678.5	2795.4
35°	2293.2	2309.0	2444.8	2574.3	2700.7
37.5°	2170.0	2192.1	2327.9	2463.8	2605.9
40°	2037.3	2065.8	2207.9	2350.0	2498.5
42.5°	1907.8	1939.4	2081.6	2233.2	2387.9
45°	1768.9	1806.8	1948.9	2113.1	2267.9
47.5°	1639.3	1677.2	1825.7	1986.8	2141.6
50°	1494.0	1541.4	1693.0	1860.5	2012.1
52.5°	1355.1	1408.8	1557.2	1727.8	1876.2
55°	1209.8	1272.9	1424.6	1592.0	1727.8
57.5°	1055.0	1130.8	1288.7	1449.8	1573.0
60°	897.1	988.7	1156.1	1304.5	1415.1
62.5°	726.5	833.9	1017.1	1156.1	1235.0
65°	581.2	672.8	884.4	991.8	1042.4
67.5°	483.3	537.0	739.1	818.1	818.1
70°	407.5	435.9	606.5	625.4	559.1
72.5°	344.3	360.1	473.8	426.4	319.0
75°	284.3	296.9	350.6	287.4	205.3
77.5°	227.4	236.9	265.3	217.9	161.1
80°	170.6	183.2	199.0	167.4	126.3
82.5°	120.0	129.5	148.5	123.2	91.6
85°	72.6	85.3	97.9	79.0	56.9
87.5°	31.6	41.1	53.7	41.1	25.3
90°	0.0	12.6	22.1	15.8	0.0
92.5°	0.0	0.0	3.2	3.2	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)