

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: P256993

Luminaire Tested: **HGL-S-BF-40L835-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256993
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-40L835-UNV-12
Description: HUGO 12 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH FROSTED LENS
Light Source: (504) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10149.3 lumens
Efficiency: N/A
Efficacy: 118.4 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

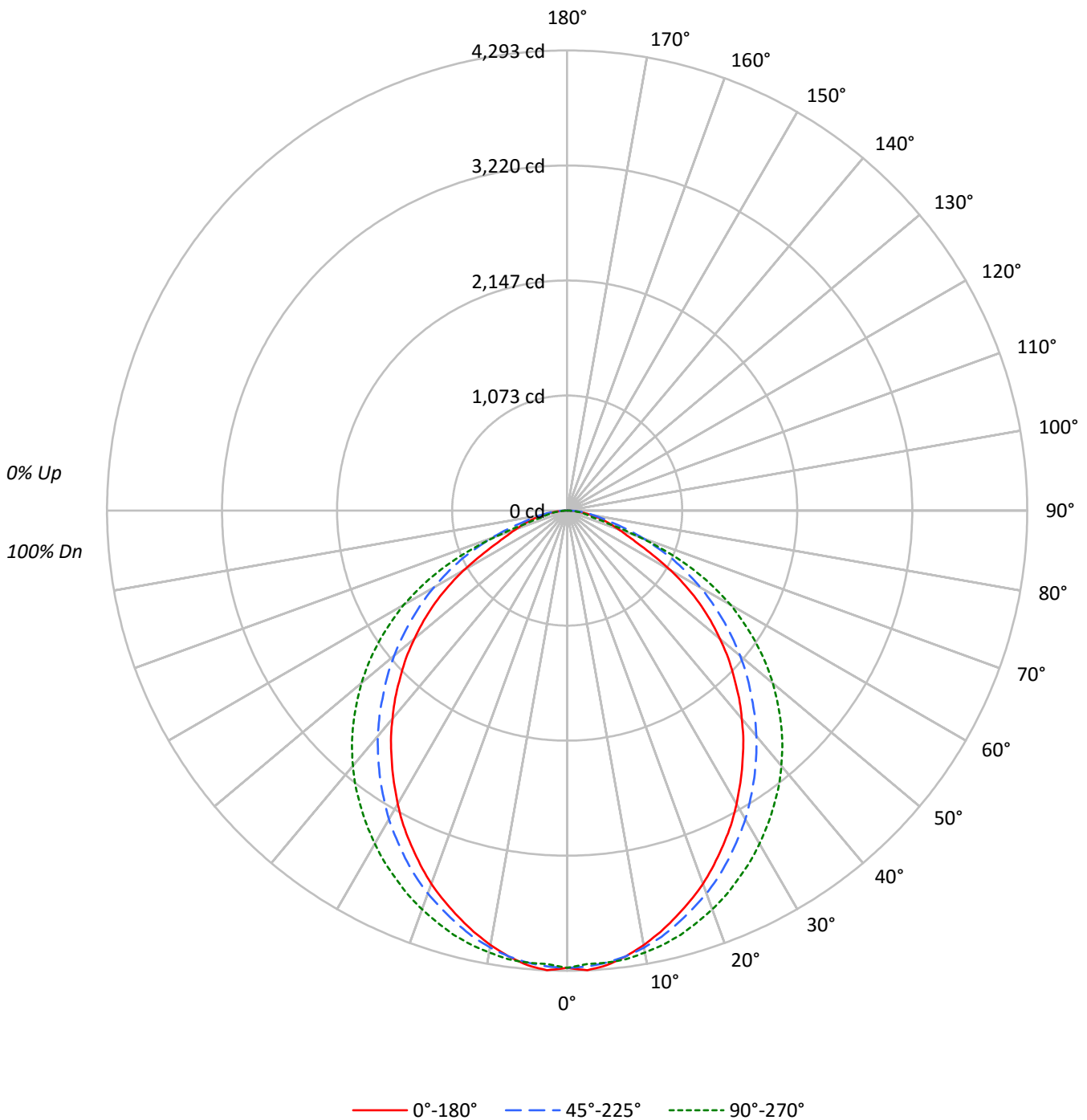
Input Watts (W): 85.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86					86			
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73					73			
3	92	82	75	68	90	81	74	68	78	72	67	75	70	66	73	68	64	62					62			
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	56	50	61	54	50	59	53	49	47					47			
6	72	59	51	45	70	59	50	45	57	50	44	55	49	44	54	48	43	41					41			
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37					37			
8	63	49	41	36	61	49	41	35	47	40	35	46	40	35	45	39	35	33					33			
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30					30			
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27					27			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16694	16694	16694
5°	16726	16589	16571
10°	16356	16361	16512
15°	15893	16017	16406
20°	15435	15654	16230
25°	14866	15225	16023
30°	14278	14763	15822
35°	13628	14225	15583
40°	12946	13679	15326
45°	12175	13016	14970
50°	11311	12367	14494
55°	10261	11578	13812
60°	8727	10681	12817
65°	6687	9550	10986
70°	5790	7950	7110
75°	5334	5905	3323
80°	4763	4736	2840
85°	4022	4027	2121



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	400.9	3.9
10°-20°	1124.1	11.1
20°-30°	1648.8	16.2
30°-40°	1912.1	18.8
40°-50°	1893.1	18.7
50°-60°	1597.4	15.7
60°-70°	1035.3	10.2
70°-80°	418.8	4.1
80°-90°	116.2	1.1
90°-100°	2.7	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°	3173.7	31.3
0°-40°	5085.8	50.1
0°-60°	8576.3	84.5
0°-90°	10146.6	100.0
90°-120°	2.7	0.0
90°-150°	2.7	0.0
90°-180°	3.0	0.0
0°-180°	10149.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4265	4265	4265	4265	4265	
5°	4257	4214	4234	4230	4234	402
15°	3923	3903	3986	4057	4096	1105
25°	3444	3444	3577	3687	3786	1585
35°	2854	2874	3042	3204	3361	1784
45°	2201	2248	2425	2630	2822	1699
55°	1506	1584	1773	1981	2150	1338
65°	723	837	1101	1234	1297	751
75°	354	370	436	358	256	376
85°	90	106	122	98	71	99
90°	0	16	28	20	0	5
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°	4265.0	4265.0	4265.0	4265.0	4265.0
2.5°	4292.6	4245.4	4257.2	4249.3	4233.6
5°	4257.2	4213.9	4233.6	4229.7	4233.6
7.5°	4194.3	4158.9	4194.3	4206.1	4221.8
10°	4115.7	4088.1	4139.2	4166.8	4186.4
12.5°	4025.3	4001.7	4072.4	4115.7	4147.1
15°	3923.0	3903.4	3985.9	4056.7	4096.0
17.5°	3816.9	3801.2	3895.5	3985.9	4029.2
20°	3706.8	3691.1	3801.2	3891.6	3958.4
22.5°	3577.1	3569.3	3695.1	3789.4	3879.8
25°	3443.5	3443.5	3577.1	3687.2	3785.5
27.5°	3309.8	3309.8	3451.3	3573.2	3695.1
30°	3160.5	3172.2	3325.6	3459.2	3588.9
32.5°	3007.1	3026.8	3184.0	3333.4	3478.9
35°	2853.8	2873.5	3042.5	3203.7	3360.9
37.5°	2700.5	2728.1	2897.1	3066.1	3243.0
40°	2535.4	2570.8	2747.7	2924.6	3109.4
42.5°	2374.3	2413.6	2590.5	2779.2	2971.8
45°	2201.3	2248.5	2425.4	2629.8	2822.4
47.5°	2040.1	2087.3	2272.1	2472.5	2665.2
50°	1859.3	1918.3	2107.0	2315.3	2504.0
52.5°	1686.4	1753.2	1937.9	2150.2	2335.0
55°	1505.5	1584.2	1772.8	1981.2	2150.2
57.5°	1312.9	1407.3	1603.8	1804.3	1957.6
60°	1116.4	1230.4	1438.7	1623.5	1761.0
62.5°	904.1	1037.8	1265.8	1438.7	1537.0
65°	723.3	837.3	1100.7	1234.3	1297.2
67.5°	601.4	668.3	919.8	1018.1	1018.1
70°	507.1	542.5	754.7	778.3	695.8
72.5°	428.5	448.1	589.6	530.7	397.0
75°	353.8	369.5	436.3	357.7	255.5
77.5°	283.0	294.8	330.2	271.2	200.5
80°	212.3	228.0	247.6	208.3	157.2
82.5°	149.4	161.2	184.8	153.3	114.0
85°	90.4	106.1	121.9	98.3	70.8
87.5°	39.3	51.1	66.8	51.1	31.4
90°	0.0	15.7	27.5	19.7	0.0
92.5°	0.0	0.0	3.9	3.9	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)