

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: P256967

Luminaire Tested: **HGL-S-BF-30L835-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256967
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-30L835-UNV-8
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH FROSTED LENS
Light Source: (336) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5357.1 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.25 / 1.28
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 8' x H: 0.01')
CIE Type: Direct

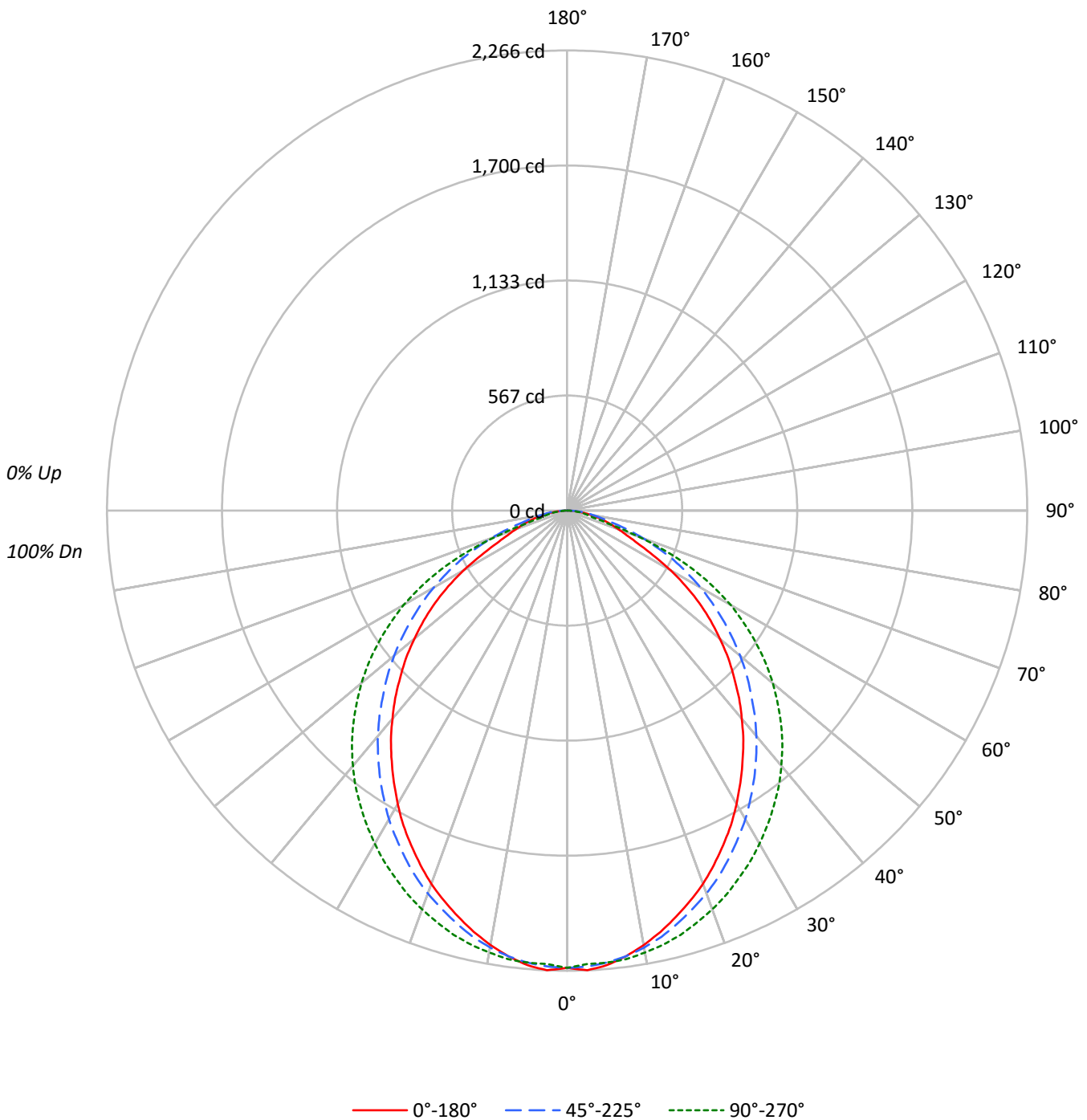
Input Watts (W): 44.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				
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°	13217	13217	13217
5°	13242	13133	13120
10°	12949	12953	13073
15°	12582	12680	12989
20°	12219	12393	12851
25°	11768	12053	12686
30°	11301	11686	12527
35°	10788	11261	12338
40°	10246	10827	12134
45°	9635	10303	11853
50°	8951	9788	11476
55°	8120	9164	10936
60°	6905	8453	10148
65°	5290	7557	8698
70°	4580	6290	5630
75°	4216	4671	2632
80°	3760	3745	2250
85°	3168	3178	1677



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.6	3.9
10°-20°	593.3	11.1
20°-30°	870.3	16.2
30°-40°	1009.3	18.8
40°-50°	999.2	18.7
50°-60°	843.2	15.7
60°-70°	546.4	10.2
70°-80°	221.1	4.1
80°-90°	61.3	1.1
90°-100°	1.4	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°	1675.2	31.3
0°-40°	2684.5	50.1
0°-60°	4526.9	84.5
0°-90°	5355.7	100.0
90°-120°	1.4	0.0
90°-150°	1.4	0.0
90°-180°	1.0	0.0
0°-180°	5357.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2251	2251	2251	2251	2251	
5°	2247	2224	2235	2233	2235	212
15°	2071	2060	2104	2141	2162	583
25°	1818	1818	1888	1946	1998	837
35°	1506	1517	1606	1691	1774	942
45°	1162	1187	1280	1388	1490	897
55°	795	836	936	1046	1135	706
65°	382	442	581	652	685	396
75°	187	195	230	189	135	198
85°	48	56	64	52	37	52
90°	0	8	14	10	0	3
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°	2251.2	2251.2	2251.2	2251.2	2251.2
2.5°	2265.8	2240.9	2247.1	2242.9	2234.6
5°	2247.1	2224.3	2234.6	2232.6	2234.6
7.5°	2213.9	2195.2	2213.9	2220.1	2228.4
10°	2172.4	2157.9	2184.8	2199.4	2209.7
12.5°	2124.7	2112.2	2149.6	2172.4	2189.0
15°	2070.7	2060.4	2103.9	2141.3	2162.0
17.5°	2014.7	2006.4	2056.2	2103.9	2126.7
20°	1956.6	1948.3	2006.4	2054.1	2089.4
22.5°	1888.1	1884.0	1950.4	2000.2	2047.9
25°	1817.6	1817.6	1888.1	1946.2	1998.1
27.5°	1747.0	1747.0	1821.7	1886.1	1950.4
30°	1668.2	1674.4	1755.3	1825.9	1894.4
32.5°	1587.3	1597.7	1680.6	1759.5	1836.3
35°	1506.4	1516.7	1606.0	1691.0	1774.0
37.5°	1425.4	1440.0	1529.2	1618.4	1711.8
40°	1338.3	1357.0	1450.3	1543.7	1641.2
42.5°	1253.2	1274.0	1367.3	1466.9	1568.6
45°	1161.9	1186.8	1280.2	1388.1	1489.8
47.5°	1076.9	1101.8	1199.3	1305.1	1406.8
50°	981.4	1012.5	1112.1	1222.1	1321.7
52.5°	890.1	925.4	1022.9	1135.0	1232.5
55°	794.7	836.2	935.8	1045.7	1135.0
57.5°	693.0	742.8	846.5	952.4	1033.3
60°	589.3	649.4	759.4	856.9	929.5
62.5°	477.2	547.8	668.1	759.4	811.3
65°	381.8	441.9	581.0	651.5	684.7
67.5°	317.5	352.7	485.5	537.4	537.4
70°	267.7	286.3	398.4	410.8	367.3
72.5°	226.2	236.5	311.2	280.1	209.6
75°	186.7	195.0	230.3	188.8	134.9
77.5°	149.4	155.6	174.3	143.2	105.8
80°	112.0	120.3	130.7	110.0	83.0
82.5°	78.8	85.1	97.5	80.9	60.2
85°	47.7	56.0	64.3	51.9	37.3
87.5°	20.7	27.0	35.3	27.0	16.6
90°	0.0	8.3	14.5	10.4	0.0
92.5°	0.0	0.0	2.1	2.1	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)