



# Report of Test

## LLIA001077-002

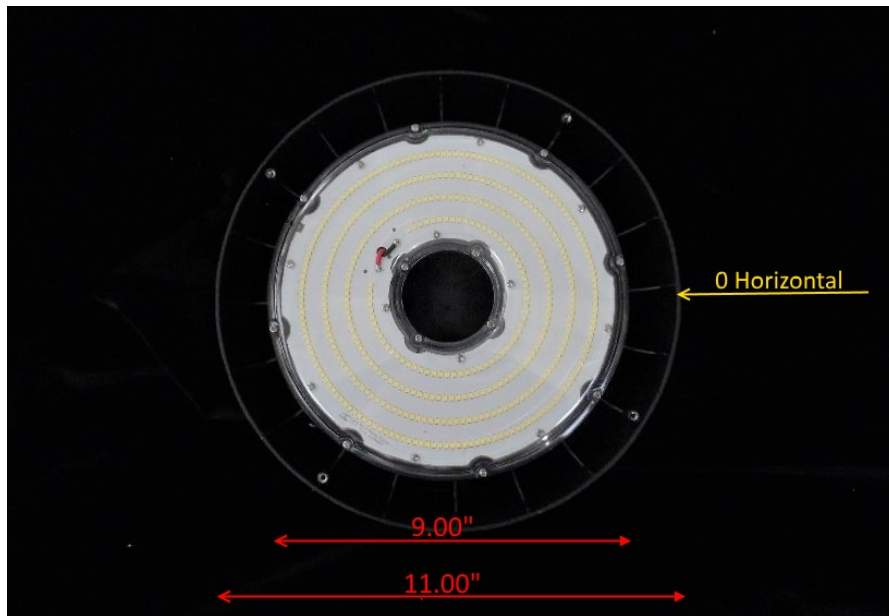
Catalog Number: F-LUHB/135W/50K

Highbay mounted, cast aluminum housing, formed white enamel steel reflector, clear plastic enclosure.

440 white LEDs, one L2394(D214.5X1.5) 440LED 40C11B LED board

One Sosen SS-150CN-130BH LED driver

120.0Vac, 60.00Hz, 1.082A, 129.6W, 0.998PF, 3.1%THD(i)



### Performance Summary

Total Light Output	19791 lm
Luminaire Power	129.6 W
Luminous Efficacy	152.7 lm/W

**PREPARED FOR : Topaz Lighting Corp, 925 Waverly Avenue, Holtsville, NY 11742, USA**



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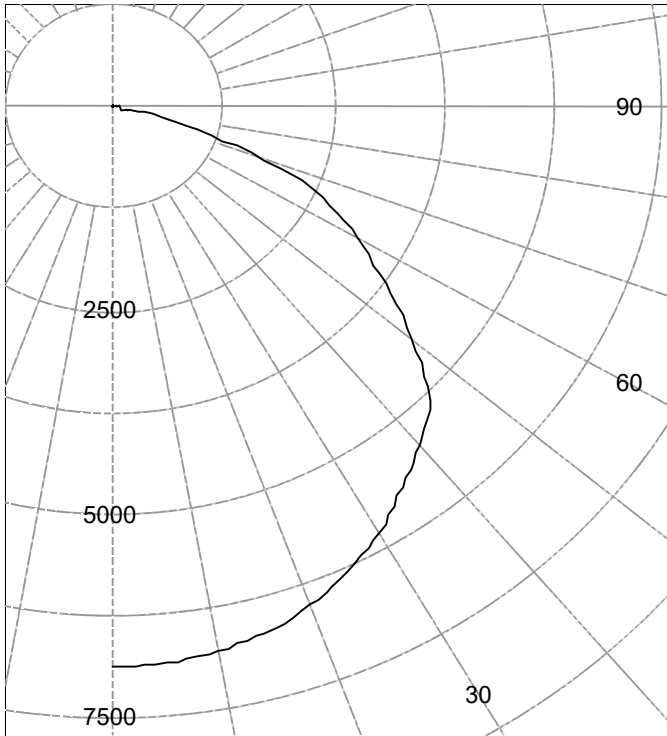
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Legend: All planes - Black (cd)



(Rotational symmetry)

**AVERAGE LUMINANCE (cd / m<sup>2</sup>)**

Gamma	C0
45.0	174750
55.0	159954
65.0	150236
75.0	80035
85.0	4711

**INTENSITY SUMMARY (cd)**

Gamma	All Planes	Flux (lm)	Gamma	C0	Flux (lm)
0	6877		90	0	
5	6856	652	95	0	0
10	6794		100	0	
15	6680	1887	105	0	1
20	6513		110	4	
25	6295	2903	115	4	5
30	6026		120	5	
35	5709	3580	125	3	3
40	5402		130	1	
45	5089	3872	135	1	1
50	4420		140	0	
55	3779	3385	145	1	0
60	3197		150	1	
65	2615	2506	155	1	0
70	1651		160	1	
75	853	929	165	1	0
80	270		170	1	
85	17	68	175	1	0
90	0		180	0	

**ZONAL FLUX AND PERCENTAGES**

Zone	Flux (lm)	%Lamp	%Luminaire
0-30	5442	N / A	27.5
0-40	9022	N / A	45.6
0-60	16278	N / A	82.3
0-90	19781	N / A	99.9
40-90	10759	N / A	54.4
60-90	3503	N / A	17.7
90-180	10	N / A	0.1
0-180	19791	N / A	100.0

**Total Light Output = 19,791 lm**

Spacing Criterion: 0-180 1.3  
Spacing Criterion: 90-270 1.3

Signed:

Authorized Signatory

Date of test 6-Feb-2019  
Date of report 7-Feb-2019



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**Intensity (cd) and Flux (lm) data**

Gamma	Intensity	Flux	Gamma	Intensity	Flux
0.0	6877		90.0	0	
2.5	6872		92.5	0	
5.0	6856	652	95.0	0	0
7.5	6831		97.5	0	
10.0	6794		100.0	0	
12.5	6744		102.5	0	
15.0	6680	1887	105.0	0	1
17.5	6603		107.5	2	
20.0	6513		110.0	4	
22.5	6411		112.5	4	
25.0	6295	2903	115.0	4	5
27.5	6168		117.5	6	
30.0	6026		120.0	5	
32.5	5871		122.5	4	
35.0	5709	3580	125.0	3	3
37.5	5551		127.5	2	
40.0	5402		130.0	1	
42.5	5271		132.5	1	
45.0	5089	3872	135.0	1	1
47.5	4773		137.5	1	
50.0	4420		140.0	0	
52.5	4084		142.5	1	
55.0	3779	3385	145.0	1	0
57.5	3474		147.5	1	
60.0	3197		150.0	1	
62.5	2902		152.5	1	
65.0	2615	2506	155.0	1	0
67.5	2172		157.5	1	
70.0	1651		160.0	1	
72.5	1226		162.5	1	
75.0	853	929	165.0	1	0
77.5	520		167.5	1	
80.0	270		170.0	1	
82.5	112		172.5	1	
85.0	17	68	175.0	1	0
87.5	2		177.5	0	
90.0	0		180.0	0	



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**Coefficients Of Utilization - Zonal Cavity Method**

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
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	92	86	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	60
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	52
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	27	37	31	26	25

For absolute test reports, CUs are expressed as a percentage of total lumen output. Calculations were based on published IES procedures, and are based on the zonal cavity method. Basic assumptions: 1) Room surfaces are lambertian reflectors. 2) Incident flux on each surface is uniformly distributed. 3) The room is spectrally neutral. When luminaires are not evenly distributed throughout the room, or do not exhibit lateral symmetry, CU values may differ from actual performance.

**Circle of Light Plot**

Height(ft)	Illuminance at Nadir (fc)	Beam Width (across 50% Nadir Illum)	
		0-180	90-270
15.0	30.6	19.51	19.51
20.0	17.2	26.02	26.02
25.0	11.0	32.52	32.52
30.0	7.6	39.02	39.02
35.0	5.6	45.53	45.53
40.0	4.3	52.03	52.03



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**Test Distance**            9.5 m  
**Test Temperature**       24.9 °C

**Notes**                      The laboratory has not participated in the selection of samples to be tested. All testing is performed on the understanding that the significance of the report is limited to the extent that the test sample is representative of production units.

Tested in accordance with the applicable sections of publications: IES LM-79-08 (Sec. 12), IES LM-16-93, IES LM-58-13, CIE 13.3:1995, CIE 15:2004, ANSI C78.377:2015, ANSI C82.77-10:2014.

The luminous intensity values, and other derived quantities, contained in this report are based on the absolute data, as measured.

Prorating the performance of the sample for the use of other component combinations (such as lamp / LED / Ballast / driver), or for use in different environmental conditions than that tested, may produce erroneous results.

This report is free of erasures and corrections.

Photometric intensity values are reported using the CIE Gamma coordinate system as defined in CIE publication number 121.

This report may contain data that are not covered by the NVLAP accreditation. Quantities marked with \* are not covered.

This report must not be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, or any agency of the Federal Government.