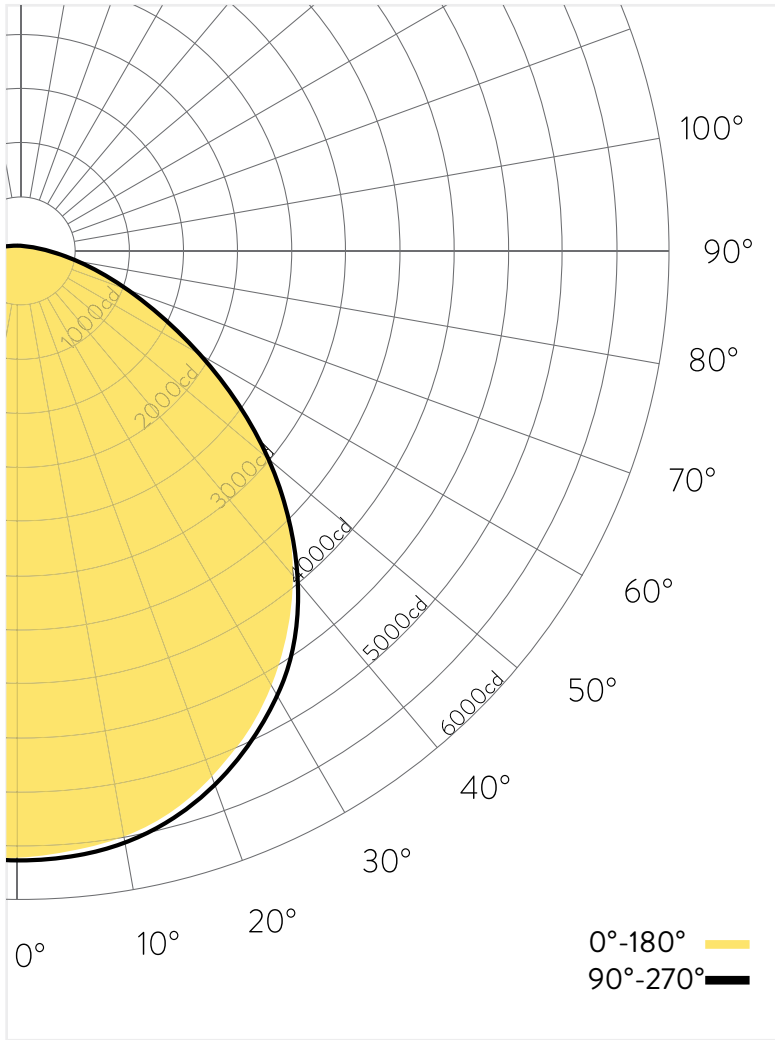


PROJECT:
CAT.NO:
NOTES:

DATE:
TYPE:
VOLTS:

HBE

CAT NO: HBE-4-220-30K



ZONAL LUMEN SUMMARY

Zone	Lumens
0.00° - 10.00°	646.88
10.00° - 20.00°	1,523.04
20.00° - 30.00°	2,298.69
30.00° - 40.00°	2,720.07
40.00° - 50.00°	2,681.32
50.00° - 60.00°	2,178.95
60.00° - 70.00°	1,424.72
70.00° - 80.00°	715.99
80.00° - 90.00°	181.35
90.00° - 100.00°	3.61
100.00° - 110.00°	3.61
110.00° - 120.00°	3.58
120.00° - 130.00°	4.10
130.00° - 140.00°	3.72
140.00° - 150.00°	4.37
150.00° - 160.00°	4.75
160.00° - 170.00°	4.06
170.00° - 180.00°	2.01
0.00° - 90.00°	14,371.03
90.00° - 180.00°	33.81
0.00° - 180.00°	14,404.83

CONE OF LIGHT

Mtg Height	Light Level	Beam Diameter
6.0 ft	156.4 fc	15.1 ft
8.0 ft	88.0 fc	20.2 ft
10.0 ft	56.3 fc	25.2 ft
12.0 ft	39.1 fc	30.3 ft
15.0 ft	25.0 fc	37.8 ft

AVERAGE LUMINAIRE LUMINANCE (CD/M²)

	0.00°	45.00°	90.00°
0.00°	26,919	26,919	26,919
45.00°	23,570	23,661	23,888
55.00°	20,632	20,454	20,279
65.00°	16,705	16,320	15,664
75.00°	12,871	12,274	11,562
85.00°	8,383	7,738	6,814

INDOOR CU TABLE

	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%
μfc	80.00%	80.00%	80.00%	80.00%	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%
μcd	70.00%	50.00%	30.00%	10.00%	20.00%	50.00%	90.00%	10.00%	20.00%	30.00%	40.00%	50.00%	60.00%	70.00%	80.00%	90.00%
0.00	118.51	118.51	118.51	118.51	118.70	118.70	118.70	118.70	111.46	111.46	111.46	106.67	106.67	106.67	102.26	102.26
1.00	110.06	105.63	101.63	98.09	107.37	107.37	99.74	99.74	99.06	99.06	99.06	94.13	94.13	94.13	90.50	90.50
2.00	100.73	92.99	86.60	81.23	98.13	98.13	89.23	89.23	87.94	87.94	82.26	82.26	80.16	80.16	76.94	76.94
3.00	92.32	82.31	74.60	68.45	89.87	89.87	79.59	79.59	77.77	77.77	71.04	71.04	69.80	69.80	66.40	66.40
4.00	84.88	73.47	66.04	60.63	82.61	82.61	72.10	72.10	69.27	69.27	62.50	62.50	61.26	61.26	58.61	58.61
RCR 5.00	78.71	66.95	59.32	54.95	76.23	76.23	64.83	64.83	62.27	62.27	55.57	55.57	54.06	54.06	51.46	51.46
6.00	73.52	61.65	53.01	48.61	70.63	70.63	59.54	59.54	56.39	56.39	49.52	49.52	48.20	48.20	45.60	45.60
7.00	69.40	57.29	48.59	44.13	65.60	65.60	54.41	54.41	51.24	51.24	44.57	44.57	43.48	43.48	40.89	40.89
8.00	66.06	53.70	44.91	40.43	61.31	61.31	50.11	50.11	47.56	47.56	40.39	40.39	39.44	39.44	36.87	36.87
9.00	63.23	50.75	41.93	37.22	57.63	57.63	46.41	46.41	43.82	43.82	36.83	36.83	35.93	35.93	33.38	33.38
10.00	60.74	47.37	38.58	34.43	54.37	54.37	43.80	43.80	41.16	41.16	34.06	34.06	33.21	33.21	30.67	30.67