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IESNA:LM-63-1995

Photopia 2.0.0.17 PHOTOMETRIC REPORT

PROJECT: hb-18-400mhpos5

RAB DESIGN INDOOR HIGHBAY LUMINAIRE HB-18-400MHPOS5 WITH 400W MH LAMP IN
POSITION 5

Number of Lamps: 1	Lumens per Lamp: 40000
Ballast Factor: 1.00	Ballast-Lamp Photometric Factor: 1.00
Luminaire Width: 0.4650	Length: 0.4650
Photometry Type: C	Height: 0.0000
	Units: meters

Candela Distribution:

	0.00
0.00	55602
5.00	50604
10.00	38383
15.00	25969
20.00	17704
25.00	12751
30.00	10342
35.00	8898
40.00	7770
45.00	5910
50.00	2840
55.00	1787
60.00	1271
65.00	920
70.00	628
75.00	374
80.00	198
85.00	71.7
90.00	21.1
95.00	138
100.00	162
105.00	145
110.00	122
115.00	99.6
120.00	65.8
125.00	47.5
130.00	46.0
135.00	40.1

140.00	135
145.00	853
150.00	1104
155.00	522
160.00	5.34
165.00	0.000
170.00	0.000
175.00	0.000
180.00	0.000

Zonal	Lumens		
Cone	Between		Lumens
0.0	0.0-	2.5	332.51
5.0	2.5-	7.5	2417.52
10.0	7.5-	12.5	3653.42
15.0	12.5-	17.5	3684.17
20.0	17.5-	22.5	3319.02
25.0	22.5-	27.5	2953.87
30.0	27.5-	32.5	2834.50
35.0	32.5-	37.5	2797.39
40.0	37.5-	42.5	2737.56
45.0	42.5-	47.5	2290.74
50.0	47.5-	52.5	1192.50
55.0	52.5-	57.5	802.50
60.0	57.5-	62.5	603.21
65.0	62.5-	67.5	457.26
70.0	67.5-	72.5	323.47
75.0	72.5-	77.5	198.09
80.0	77.5-	82.5	107.07
85.0	82.5-	87.5	39.14
90.0	87.5-	92.5	11.55
95.0	92.5-	97.5	75.34
100.0	97.5-	102.5	87.54
105.0	102.5-	107.5	76.57
110.0	107.5-	112.5	63.09
115.0	112.5-	117.5	49.49
120.0	117.5-	122.5	31.23
125.0	122.5-	127.5	21.34
130.0	127.5-	132.5	19.33
135.0	132.5-	137.5	15.56
140.0	137.5-	142.5	47.61
145.0	142.5-	147.5	268.18
150.0	147.5-	152.5	302.54
155.0	152.5-	157.5	120.95
160.0	157.5-	162.5	1.00
165.0	162.5-	167.5	0.00
170.0	167.5-	172.5	0.00
175.0	172.5-	177.5	0.00
180.0	177.5-	180.0	0.00

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixt
0- 30	17724	44.3	55.5
0- 40	23326	58.3	73.0
0- 60	29314	73.3	91.8

0- 90	30750	76.9	96.3
90-120	374	0.9	1.2
90-130	420	1.1	1.3
90-150	918	2.3	2.9
90-180	1186	3.0	3.7
0-180	31935	79.8	100.0

Total Luminaire Optical Efficiency = 79.8%

Luminaire Spacing Criterion:

0 deg
0.47

Average Luminaire Luminance (cd/m²):

0	
0	257148.81
45	38655.43
50	20433.38
55	14411.04
60	11753.68
65	10072.70
70	8491.71
75	6685.29
80	5282.70
85	3803.60

Coefficients of Utilization - Zonal Cavity Method:

pfc = 0.20

pcc	.8				.7				.5			.3			.1			0
pw	.7	.5	.3	.1	.7	.5	.3	.1	.5	.3	.1	.5	.3	.1	.5	.3	.1	0
RCR																		
0	95	95	95	95	93	93	93	93	88	88	88	84	84	84	80	80	80	78
1	90	88	85	83	88	86	83	82	82	80	79	78	77	76	75	74	73	71
2	85	80	77	73	83	79	75	72	76	73	70	73	70	68	70	68	66	65
3	80	74	69	66	78	73	68	65	70	66	64	68	65	62	65	63	61	59
4	75	68	63	60	74	67	63	59	65	61	58	63	60	57	61	58	56	54
5	71	64	58	54	69	63	58	54	61	56	53	59	55	52	57	54	52	50
6	67	59	54	50	66	58	53	50	57	52	49	55	52	49	54	51	48	47
7	64	55	50	46	62	55	50	46	53	49	46	52	48	45	51	47	45	44
8	60	52	47	43	59	52	47	43	50	46	43	49	45	42	48	45	42	41
9	58	49	44	41	56	49	44	40	48	43	40	47	43	40	46	42	40	38
10	55	47	42	38	54	46	41	38	45	41	38	44	40	38	44	40	37	36

