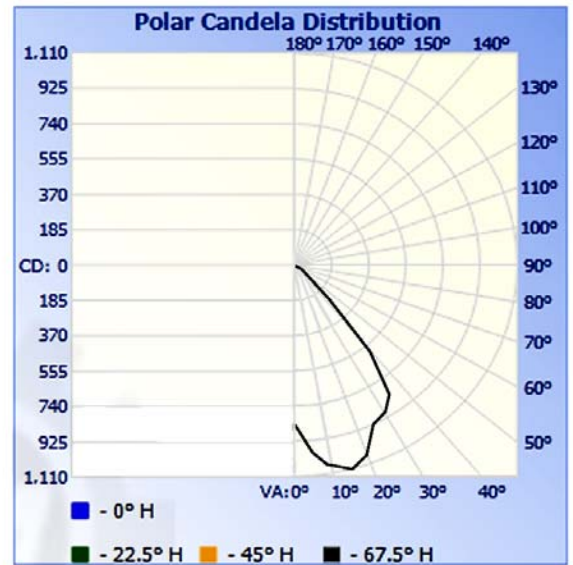
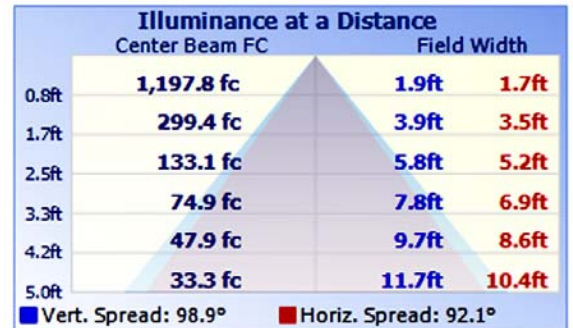


8140H with 8591CL
8" Compact Fluorescent Housing
Photometric Data

Lamp Type	Two 18W Quad Tube, OSRAM
Initial Lumens	1250
Input Wattage	120V/54W
Total Efficiency	64.2%

Zonal Lumen Summary				Lumens Per Zone		
Zone	lumens	%Lamp	%Luminaire	Zone	Lumens	%Total LU
0-30	790.0	31.6%	49.2%	0-10	89.5	5.6%
0-40	1,268.4	50.7%	79%	10-20	285.6	17.8%
0-60	1,501.9	60.1%	93.6%	20-30	414.9	25.8%
0-90	1,605.3	64.2%	100%	30-40	478.3	29.8%
Total Efficiency: 64.2%				40-50	204.1	12.7%
				50-60	29.4	1.8%
				60-70	31.6	2%
				70-80	35.4	2.2%
				80-90	36.4	2.3%

Coefficients Of Utilization - Zonal Cavity Method													
RC %:	80				70				50				50
	70	50	30	0	70	50	30	0	50	30	0	50	
RW %:	70	50	30	0	70	50	30	0	50	30	0	50	
RCR: 0	97	97	97	97	95	95	95	95	91	91	91	87	
1	90	86	83	79	87	84	81	78	81	78	75	78	
2	83	76	72	65	80	75	70	65	72	68	63	70	
3	76	68	62	55	74	67	61	55	64	60	54	62	
4	70	61	54	47	68	60	54	47	58	52	46	56	
5	64	54	48	40	63	54	47	40	52	46	40	50	
6	59	49	42	35	58	48	42	35	47	41	35	45	
7	55	44	37	31	53	44	37	31	42	36	30	41	
8	51	40	33	27	50	40	33	27	39	33	27	37	
9	47	37	30	24	46	36	30	24	35	29	24	34	
10	44	34	27	21	43	33	27	21	32	27	21	32	



Project:	Quantity	Remarks
Contact:		
Location:		
Fixture Type:		

8140H with 8591CL
8" Compact Fluorescent Housing
Photometric Data

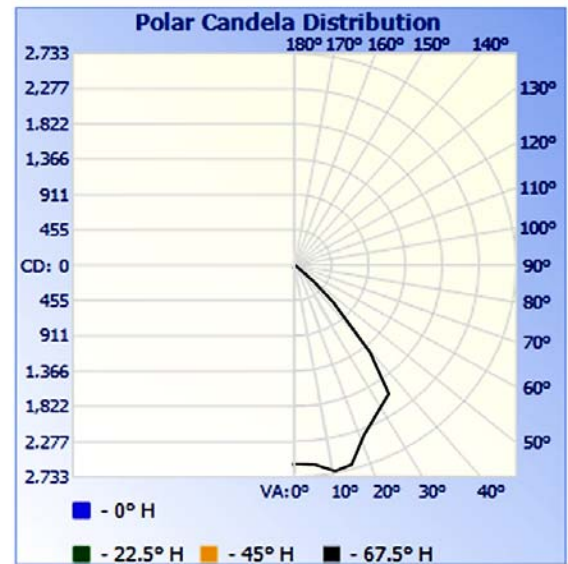
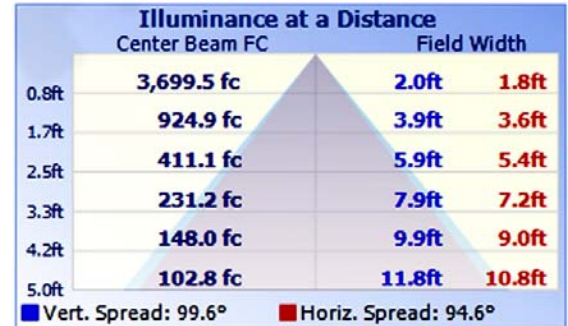
Lamp Type	Two 42W Triple Tube, OSRAM
Initial Lumens	3200
Input Wattage	120V/96W
Total Efficiency	61%

Zonal Lumen Summary			Lumens Per Zone			
Zone	lumens	%Lamp	%Luminaire	Zone	Lumens	%Total LU
0-30	1,972.6	30.8%	50.5%	0-10	246.6	6.3%
0-40	3,109.8	48.6%	79.7%	10-20	714.4	18.3%
0-60	3,698.8	57.8%	94.8%	20-30	1,011.5	25.9%
0-90	3,903.1	61%	100%	30-40	1,137.3	29.1%
Total Efficiency: 61%			40-50	526.6	13.5%	
			50-60	62.4	1.6%	
			60-70	62.8	1.6%	
			70-80	68.4	1.8%	
			80-90	73.1	1.9%	

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RC %:	80		70		50		30		10		0										
RW %:	70	50	30	0	70	50	30	0	50	30	0	50	30	0	50	30	0	50	30	0	50
RCR: 0	73	73	73	73	71	71	71	71	68	68	68	65	65	65	62	62	62	61	61	61	61
1	68	66	64	62	67	65	63	61	62	61	59	60	59	57	58	57	56	57	56	55	57
2	64	60	57	54	63	59	56	53	57	55	52	55	53	51	54	52	50	53	52	50	53
3	60	55	52	47	59	54	51	47	53	50	46	51	49	46	50	48	45	49	48	45	49
4	56	51	47	42	55	50	46	42	49	46	42	47	45	41	46	44	41	46	44	41	46
5	53	47	43	38	52	46	42	38	45	42	38	44	41	38	43	40	37	43	40	37	43
6	50	43	39	35	49	43	39	35	42	38	35	41	38	34	40	37	34	40	37	34	40
7	47	40	36	32	46	40	36	32	39	35	32	38	35	31	37	34	31	37	34	31	37
8	44	37	33	29	43	37	33	29	36	33	29	36	32	29	35	32	29	35	32	29	35
9	42	35	31	27	41	34	30	27	34	30	27	33	30	27	33	30	27	32	30	27	32
10	39	32	28	25	39	32	28	25	32	28	25	31	28	25	31	28	25	30	28	25	30



Project:	Quantity	Remarks
Contact:		
Location:		
Fixture Type:		

8140H with 8591CL
8" Compact Fluorescent Housing
Photometric Data

Photometrics Pro Luminaire Report

Lamp Type: Two 26W
Lamp Output: 2 lamp(s), rated lamp lumens: 1800
Max Candela: 1,131.5 at Horizontal: 90, Vertical: 10
Input Wattage: 72
Luminous Opening: Rectangle w/Luminous Sides (L: 8.46ft, W: 9.92ft, H: 10.11ft)
Test: PHOTOPA 2.0.0.10 PHOTOMETRIC REPORT
Photometry: Type C
CIE Class: Direct
Cutoff Class: Cutoff
Nema Type: 6H x 6V

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	834.2	23.2%	42.1%
0-40	1,347.6	37.4%	68%
0-60	1,790.2	49.7%	90.3%
0-90	1,981.7	55%	100%

Total Efficiency: **55%**

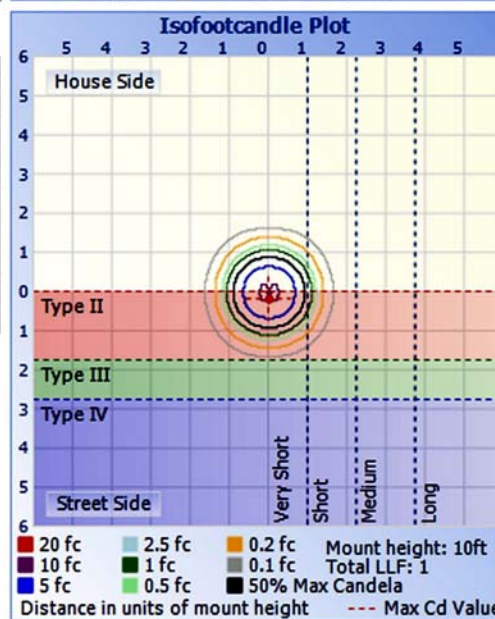
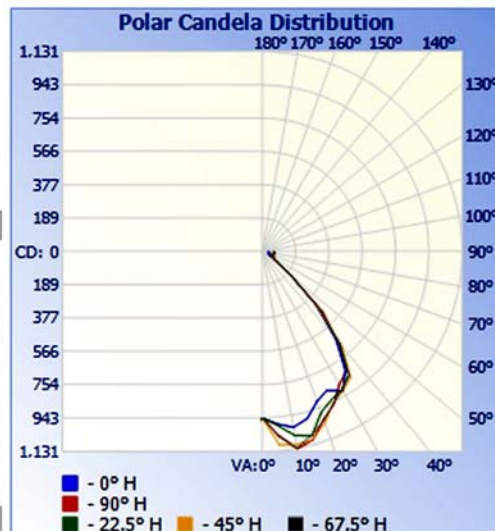
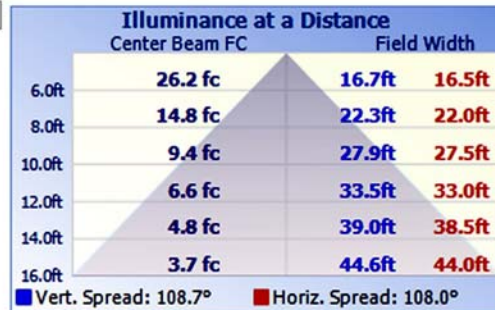
Lumens Per Zone

Zone	Lumens	% Total LU	Zone	Lumens	% Total LU
0-10	99.9	5%	90-100	0	0%
10-20	299.4	15.1%	100-110	0	0%
20-30	434.8	21.9%	110-120	0	0%
30-40	513.4	25.9%	120-130	0	0%
40-50	339.0	17.1%	130-140	0	0%
50-60	103.6	5.2%	140-150	0	0%
60-70	58.6	3%	150-160	0	0%
70-80	63.1	3.2%	160-170	0	0%
80-90	69.9	3.5%	170-180	0	0%

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RC %:	80	70	50	30	10	0
RW %:	70 50 30 0	70 50 30 0	50 30 0	50 30 0	50 30 0	50
RCR: 0	66 66 66 66	64 64 64 64	61 61 61	59 59 59	56 56 56	55
1	61 58 56 54	59 57 55 53	55 53 51	53 52 50	51 50 49	50
2	57 53 50 46	55 52 49 45	50 47 44	48 46 44	47 45 43	46
3	53 48 44 40	51 47 44 40	45 42 39	44 42 38	43 41 38	42
4	49 44 40 35	48 43 39 35	42 38 35	40 38 34	39 37 34	39
5	46 40 36 31	45 39 35 31	38 35 31	37 34 31	36 34 31	36
6	43 37 32 28	42 36 32 28	35 32 28	34 31 28	33 31 28	33
7	40 34 29 25	39 33 29 25	32 29 25	32 28 25	31 28 25	31
8	38 31 27 23	37 31 27 23	30 26 23	29 26 23	29 26 23	28
9	35 29 25 21	35 28 25 21	28 24 21	27 24 21	27 24 21	27
10	33 27 23 19	33 26 23 19	26 23 19	26 22 19	25 22 19	25



8140H with 8591CL
8" Compact Fluorescent Housing
Photometric Data

Lamp Type	Two 32W TTT, OSRAM
Initial Lumens	1466.11
Input Voltage	120V

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum.Flux [lm]	Zonal Flux [%]	Sum.Flux [%]
0	818.69	0.00	0.00	0.00	0.00
5	811.37	19.49	19.49	0.41	0.41
10	855.22	59.62	79.11	1.24	1.65
15	875.77	102.68	181.79	2.14	3.79
20	873.21	144.14	325.93	3.00	6.79
25	823.77	177.98	503.91	3.71	10.50
30	759.40	200.35	704.26	4.17	14.67
35	703.51	215.42	919.68	4.49	19.16
40	585.32	215.03	1134.72	4.48	23.64
45	375.02	177.81	1312.53	3.70	27.34
50	110.48	98.10	1410.63	2.04	29.39
55	28.48	30.22	1440.85	0.63	30.02
60	15.64	10.20	1451.04	0.21	30.23
65	9.43	6.09	1457.14	0.13	30.36
70	5.83	3.86	1461.00	0.08	30.44
75	3.61	2.47	1463.47	0.05	30.49
80	2.06	1.52	1464.98	0.03	30.52
85	0.85	0.79	1465.77	0.02	30.54
90	0.39	0.34	1466.11	0.01	30.54

