

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1012026

Luminaire Tested: S123DIP-B775D365UB50-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012026
REPORT IS A COMBINATION OF REPORTS P990395 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B775D365UB50-4F0-XX-W2A-D4
Description: Define 3 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

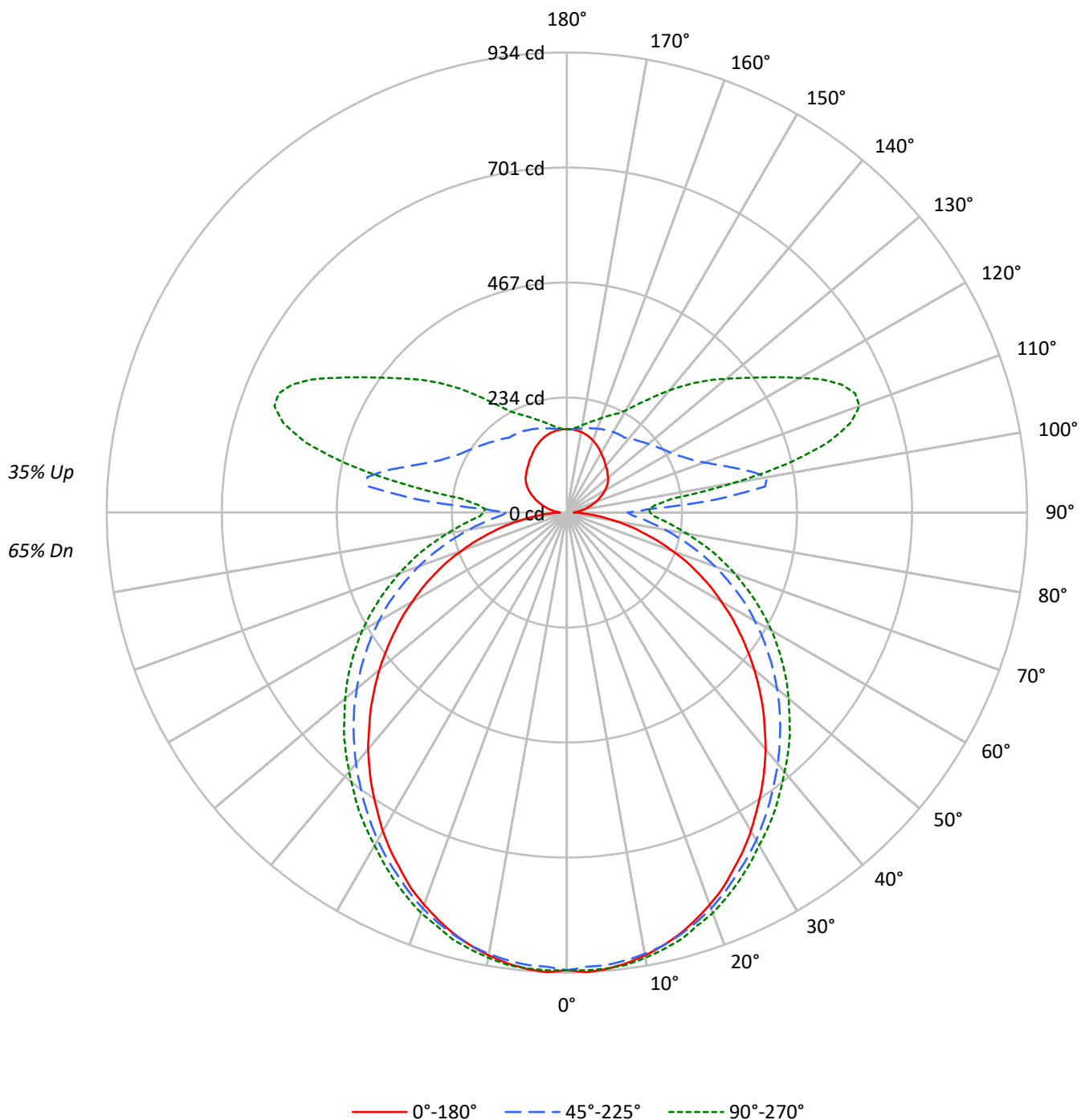
Lumens per Lamp: N/A
Luminaire Lumens: 4397.0 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 45.2
Input Voltage (V):
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: 24 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	111	111	111	111	104	104	104	104	92	92	92	80	80	80	70	70	70
1	100	95	90	86	93	89	85	82	78	75	73	69	66	64	60	58	56
2	90	82	75	69	84	77	71	66	68	63	59	60	56	53	52	49	46
3	82	72	64	57	77	67	60	54	60	54	49	52	48	44	45	42	39
4	75	63	55	48	70	60	52	46	53	46	42	46	41	37	40	36	33
5	69	56	48	41	64	53	45	39	47	41	36	41	36	32	36	32	29
6	63	50	42	36	59	48	40	34	42	36	31	37	32	28	33	29	25
7	59	46	37	31	55	43	35	30	38	32	27	34	29	25	30	26	22
8	54	41	33	28	51	39	32	26	35	29	24	31	26	22	27	23	20
9	51	38	30	25	47	36	29	24	32	26	22	29	24	20	25	21	18
10	47	35	27	22	44	33	26	21	30	24	20	26	21	18	24	19	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10002	10002	10002
5°	10030	9709	9701
10°	9936	9446	9374
15°	9804	9155	9027
20°	9618	8832	8654
25°	9388	8467	8268
30°	9152	8137	7880
35°	8889	7791	7564
40°	8637	7475	7231
45°	8358	7168	6956
50°	8082	6864	6658
55°	7777	6552	6384
60°	7478	6234	6102
65°	7170	5895	5773
70°	6708	5515	5434
75°	6121	5079	5083
80°	5440	4642	4684
85°	4764	4286	4397

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8358 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.2	2.0
10°-20°	251.3	5.7
20°-30°	375.8	8.5
30°-40°	448.7	10.2
40°-50°	469.4	10.7
50°-60°	440.5	10.0
60°-70°	368.0	8.4
70°-80°	263.1	6.0
80°-90°	157.5	3.6
90°-100°	194.3	4.4
100°-110°	340.5	7.7
110°-120°	309.8	7.0
120°-130°	235.8	5.4
130°-140°	176.7	4.0
140°-150°	125.2	2.8
150°-160°	85.6	1.9
160°-170°	50.3	1.1
170°-180°	16.3	0.4
0°-30°	715.2	16.3
0°-40°	1163.9	26.5
0°-60°	2073.9	47.2
0°-90°	2862.5	65.1
90°-120°	844.6	19.2
90°-150°	1382.3	31.4
90°-180°	1534.0	34.9
0°-180°	4397.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	929	929	929	929	929	
5°	930	928	922	930	929	88
15°	886	889	888	898	897	250
25°	800	810	813	826	826	369
35°	688	704	718	733	737	430
45°	563	587	612	632	640	434
55°	429	463	499	526	534	384
65°	297	336	381	411	421	293
75°	161	208	259	292	305	172
85°	50	100	154	188	198	51
90°	14	67	123	158	169	10
95°	23	88	303	191	181	21
105°	48	91	351	585	548	50
115°	75	104	264	539	615	75
125°	100	118	229	409	478	90
135°	116	137	206	323	373	90
145°	131	149	191	248	276	82
155°	148	160	185	210	219	68
165°	162	166	177	188	191	46
175°	168	169	170	172	172	16
180°	169	169	169	169	169	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	929.2	929.2	929.2	929.2	929.2
2.5°	934.3	931.3	923.2	931.3	930.3
5°	930.3	928.2	922.2	930.3	929.2
7.5°	923.2	923.2	917.1	927.2	926.2
10°	913.1	915.1	910.0	920.1	918.1
12.5°	900.9	903.9	900.9	910.0	908.0
15°	885.7	888.8	887.7	897.9	896.9
17.5°	867.5	873.6	872.6	881.7	879.6
20°	847.3	853.3	855.4	864.5	865.5
22.5°	826.0	832.1	835.1	847.3	846.2
25°	799.7	809.8	812.8	826.0	826.0
27.5°	774.4	785.5	791.6	802.7	803.7
30°	747.0	760.2	768.3	780.4	780.4
32.5°	716.7	731.9	743.0	756.2	759.2
35°	688.3	704.5	717.7	732.9	736.9
37.5°	658.0	676.2	691.4	708.6	711.6
40°	627.6	645.8	666.1	683.3	687.3
42.5°	594.2	617.5	638.7	658.0	664.0
45°	562.8	587.1	612.4	631.6	639.7
47.5°	529.4	556.7	585.1	606.3	612.4
50°	497.0	525.4	556.7	580.0	587.1
52.5°	462.6	493.0	528.4	552.7	561.8
55°	429.2	462.6	499.0	526.4	534.5
57.5°	396.8	431.2	470.7	498.0	507.1
60°	362.4	398.8	440.3	468.7	479.8
62.5°	330.0	367.4	412.0	440.3	450.5
65°	296.6	336.1	380.6	411.0	421.1
67.5°	263.2	304.7	349.2	382.6	390.7
70°	227.8	271.3	319.9	352.3	362.4
72.5°	195.4	238.9	289.5	322.9	333.0
75°	160.9	208.5	259.1	292.5	304.7
77.5°	131.6	179.2	229.8	265.2	274.3
80°	100.2	149.8	202.5	236.9	247.0
82.5°	72.9	123.5	177.1	211.6	221.7
85°	49.6	100.2	153.9	188.3	198.4
87.5°	30.4	81.0	132.6	167.0	177.1
90°	13.9	66.9	122.9	158.4	168.8
92.5°	17.2	76.2	169.9	161.4	166.9
95°	22.7	88.4	302.9	190.8	181.3
97.5°	28.6	89.8	405.8	273.2	215.9
100°	34.4	89.2	411.8	428.4	341.8
102.5°	40.6	89.2	383.5	526.8	459.9
105°	47.7	91.0	350.7	584.8	548.2
107.5°	54.3	93.8	321.0	606.0	603.3
110°	61.5	96.8	296.5	600.7	631.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	69.0	100.0	277.4	574.3	632.8
115°	75.2	104.5	263.8	538.8	614.7
117.5°	82.3	107.7	252.0	501.4	584.8
120°	88.8	110.8	243.1	465.6	546.3
122.5°	95.3	114.6	235.7	436.0	510.8
125°	100.4	118.0	228.6	409.1	477.7
127.5°	105.2	123.2	222.5	386.0	448.4
130°	109.6	128.6	216.4	364.2	422.2
132.5°	112.1	133.6	211.0	343.3	398.3
135°	116.2	137.2	205.6	323.2	373.4
137.5°	119.9	141.0	200.9	302.7	348.6
140°	122.7	144.4	196.4	283.6	323.7
142.5°	126.8	146.4	191.7	264.8	299.2
145°	131.2	149.2	191.1	248.2	276.3
147.5°	134.7	152.1	190.0	234.2	256.9
150°	139.1	154.5	188.7	223.4	239.5
152.5°	143.6	157.0	187.0	216.6	227.3
155°	148.0	159.6	184.9	210.2	219.1
157.5°	151.4	161.8	183.2	204.0	211.2
160°	155.5	163.7	181.1	198.4	203.7
162.5°	158.6	165.1	179.1	193.1	196.9
165°	161.7	166.3	177.0	187.8	191.1
167.5°	164.1	167.4	175.0	183.2	185.3
170°	166.1	167.8	172.9	179.1	180.1
172.5°	167.5	168.4	171.2	175.5	175.3
175°	168.5	168.6	169.9	172.3	171.9
177.5°	169.2	168.8	168.8	170.2	169.5
180°	168.8	168.8	168.8	168.8	168.8

(END OF REPORT)