

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: P1001870

Luminaire Tested: SA4XXDIP-B795D365UB50-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1001870
REPORT IS A COMBINATION OF REPORTS P996495 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-B795D365UB50-4F0-XX-W2A-D4
Description: Define 4 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

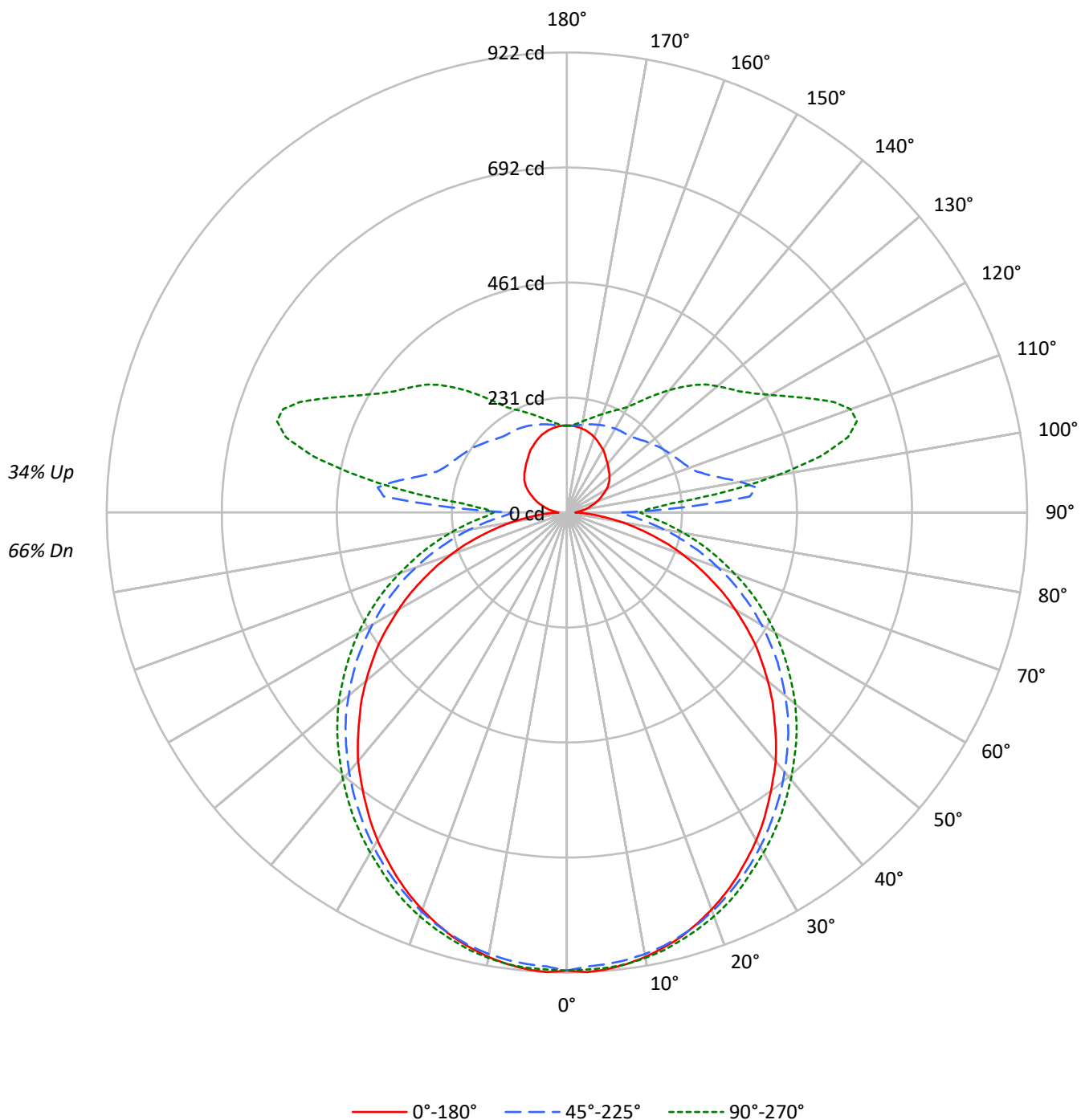
Lumens per Lamp: N/A
Luminaire Lumens: 4400.5 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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		81	81	81		71	71	71
1	100	95	90	86		94	89	85	82		79	76	73		69	67	65		60	59	57
2	91	82	75	70		85	77	71	66		68	64	59		60	56	53		52	49	47
3	82	72	64	57		77	68	60	55		60	54	49		53	48	44		46	42	39
4	75	63	55	48		70	60	52	46		53	47	42		47	42	38		41	37	34
5	69	56	48	41		64	53	45	39		47	41	36		42	36	32		37	32	29
6	63	50	42	36		59	48	40	34		42	36	31		38	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	27		51	39	32	26		35	29	24		31	26	22		28	23	20
9	51	38	30	25		48	36	29	24		32	26	22		29	24	20		25	21	18
10	47	35	27	22		44	33	26	21		30	24	20		27	22	18		24	19	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7486	7486	7486
5°	7507	7291	7304
10°	7458	7147	7127
15°	7388	6986	6927
20°	7285	6812	6733
25°	7168	6619	6524
30°	7042	6428	6311
35°	6899	6234	6121
40°	6785	6046	5924
45°	6616	5870	5750
50°	6471	5671	5567
55°	6323	5478	5355
60°	6090	5239	5157
65°	5836	4980	4918
70°	5528	4686	4641
75°	5095	4357	4378
80°	4611	4024	4103
85°	3966	3687	3878

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6616 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.0	2.0
10°-20°	249.2	5.7
20°-30°	376.8	8.6
30°-40°	455.9	10.4
40°-50°	482.0	11.0
50°-60°	453.6	10.3
60°-70°	376.4	8.6
70°-80°	264.1	6.0
80°-90°	149.6	3.4
90°-100°	217.9	5.0
100°-110°	328.5	7.5
110°-120°	278.4	6.3
120°-130°	221.6	5.0
130°-140°	175.0	4.0
140°-150°	127.6	2.9
150°-160°	88.2	2.0
160°-170°	51.9	1.2
170°-180°	16.9	0.4
0°-30°	713.1	16.2
0°-40°	1169.0	26.6
0°-60°	2104.5	47.8
0°-90°	2894.6	65.8
90°-120°	824.8	18.7
90°-150°	1349.0	30.7
90°-180°	1506.0	34.2
0°-180°	4400.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	918	918	918	918	918	
5°	919	916	909	917	916	87
15°	881	882	879	888	887	248
25°	806	812	815	827	828	371
35°	705	718	728	742	745	442
45°	588	608	627	645	650	454
55°	461	482	513	534	540	410
65°	319	352	386	412	420	316
75°	177	215	258	287	296	188
85°	54	98	144	175	185	57
90°	17	60	108	138	147	12
95°	25	83	368	255	210	23
105°	49	88	292	576	583	53
115°	77	104	248	455	540	76
125°	102	120	228	375	423	91
135°	119	141	207	316	361	92
145°	135	154	196	251	279	85
155°	153	165	191	216	225	71
165°	166	172	183	194	197	47
175°	174	174	175	178	177	16
180°	174	174	174	174	174	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	918.0	918.0	918.0	918.0	918.0
2.5°	922.2	919.1	910.9	918.0	917.0
5°	919.1	916.0	908.8	917.0	916.0
7.5°	912.9	910.9	904.7	913.9	912.9
10°	904.7	903.7	898.5	907.8	906.7
12.5°	893.4	893.4	890.3	898.5	898.5
15°	881.0	882.1	879.0	888.2	887.2
17.5°	864.6	867.7	866.6	875.9	874.9
20°	847.1	850.2	851.2	861.5	861.5
22.5°	827.6	831.7	833.7	844.0	846.1
25°	806.0	812.2	815.2	826.6	827.6
27.5°	782.3	791.6	795.7	806.0	807.0
30°	758.7	766.9	774.1	785.4	787.5
32.5°	733.0	743.3	751.5	764.9	766.9
35°	705.2	717.6	727.9	742.3	745.3
37.5°	677.5	691.9	704.2	718.6	721.7
40°	650.8	664.1	678.5	693.9	698.0
42.5°	619.9	635.3	652.8	670.3	673.4
45°	588.0	607.6	627.1	644.6	649.7
47.5°	558.2	577.8	600.4	617.9	624.0
50°	525.3	547.9	570.6	591.1	597.3
52.5°	492.4	515.1	541.8	562.3	568.5
55°	460.6	482.2	513.0	533.6	539.7
57.5°	424.6	451.3	481.1	505.8	510.9
60°	389.6	416.4	450.3	473.9	482.2
62.5°	355.7	385.5	419.4	443.1	451.3
65°	318.7	351.6	386.5	412.2	420.5
67.5°	283.7	318.7	355.7	381.4	389.6
70°	247.8	282.7	321.8	349.5	356.7
72.5°	212.8	248.8	290.9	317.7	325.9
75°	176.8	214.9	258.0	286.8	296.1
77.5°	142.9	183.0	228.2	257.0	267.3
80°	112.1	153.2	198.4	229.3	237.5
82.5°	81.2	124.4	169.6	201.5	210.7
85°	54.5	97.7	143.9	174.8	185.0
87.5°	33.9	76.1	121.3	151.1	160.4
90°	16.7	60.3	108.0	138.4	147.0
92.5°	20.2	77.8	229.6	168.6	163.7
95°	24.7	82.8	368.0	255.2	209.8
97.5°	31.1	81.4	382.4	392.6	320.6
100°	37.3	82.4	353.0	495.6	426.6
102.5°	44.1	84.5	318.8	557.1	519.8
105°	49.3	87.8	292.2	576.5	582.8
107.5°	57.2	92.2	272.9	563.6	609.4
110°	63.9	95.6	262.3	530.0	605.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	70.4	100.0	254.2	490.4	578.6
115°	76.6	103.8	248.3	455.2	539.9
117.5°	84.1	108.0	242.8	425.4	503.1
120°	90.6	111.1	237.6	403.4	470.9
122.5°	97.4	115.0	232.2	387.8	444.3
125°	102.2	119.7	227.8	375.3	423.0
127.5°	107.7	125.8	221.9	362.1	408.2
130°	111.1	130.8	216.4	348.6	393.9
132.5°	115.6	136.0	212.0	333.5	379.5
135°	118.7	140.8	206.6	316.0	361.4
137.5°	122.8	144.0	202.4	298.6	341.2
140°	127.2	148.0	199.0	281.4	320.7
142.5°	130.9	151.6	196.9	266.2	299.1
145°	135.3	153.8	196.2	251.0	279.3
147.5°	140.5	156.9	195.2	237.4	260.5
150°	145.3	159.8	194.2	228.7	244.1
152.5°	148.7	162.6	192.5	222.2	233.8
155°	152.8	165.0	190.8	216.0	225.3
157.5°	156.9	167.1	189.0	210.2	217.4
160°	160.7	169.0	187.0	204.4	210.2
162.5°	164.1	170.6	184.9	198.8	203.4
165°	166.5	171.6	182.9	193.6	196.6
167.5°	169.2	172.4	180.8	189.2	191.1
170°	170.9	173.1	178.8	184.8	186.0
172.5°	172.6	173.6	176.7	180.8	180.8
175°	173.7	174.0	175.4	177.8	177.1
177.5°	174.3	174.0	174.3	175.6	174.3
180°	174.0	174.0	174.0	174.0	174.0

(END OF REPORT)