

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: P1027774

Luminaire Tested: S125DIP-B375D1090UB35-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027774
REPORT IS A COMBINATION OF REPORTS P1001860 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D1090UB35-4F0-XX-W2A-F4
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

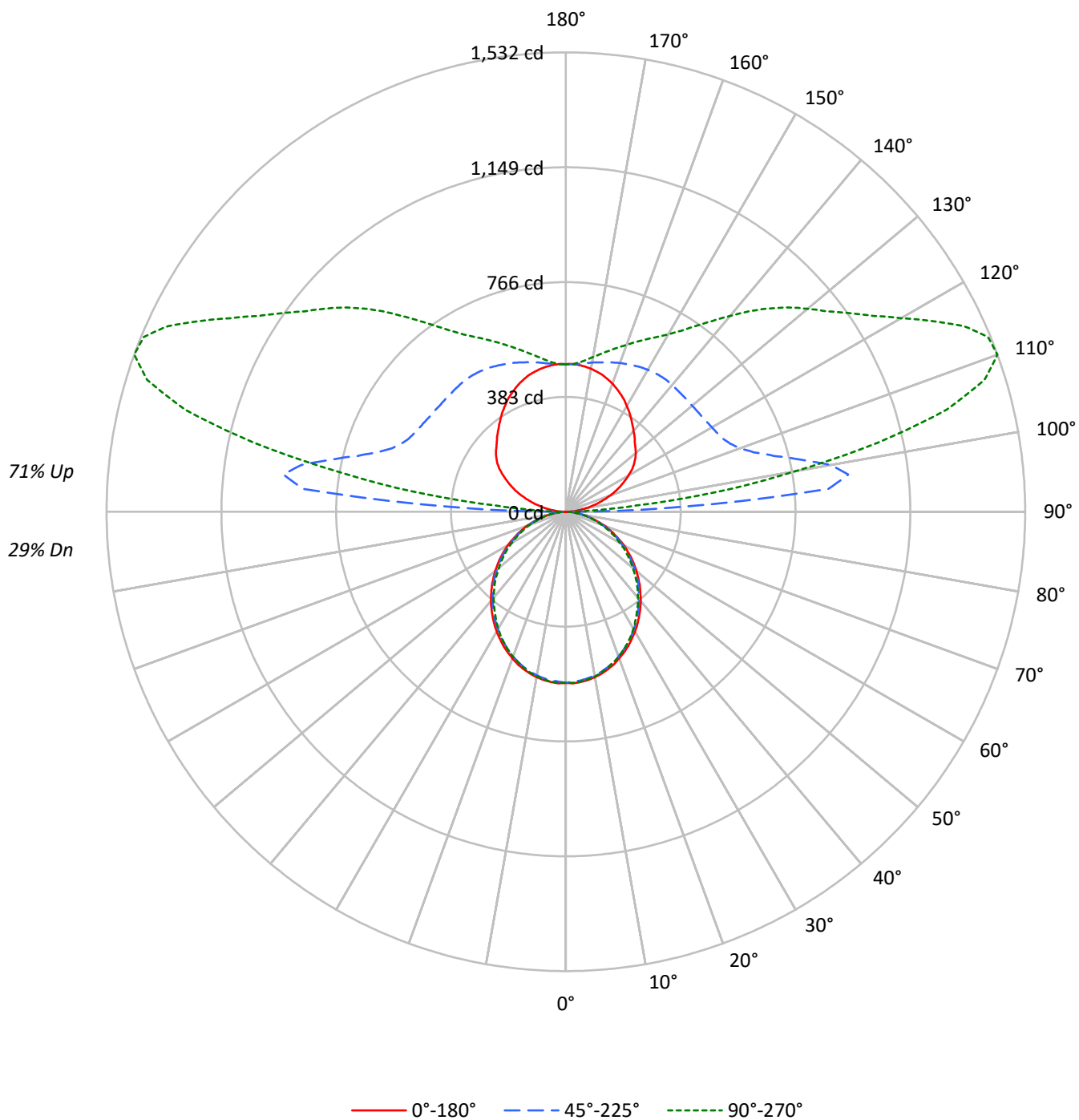
Lumens per Lamp: N/A
Luminaire Lumens: 5193.6 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 41.5
Input Voltage (V):
Input Current (A_{in}): 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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	37	37	37
1	93	89	85	82	83	80	76	74	62	60	58	47	45	44	32	31	31
2	85	77	72	67	75	70	65	60	55	51	48	41	39	37	28	27	26
3	77	68	61	55	69	61	55	50	48	44	40	36	33	31	25	23	22
4	70	60	52	47	63	54	48	42	43	38	34	32	29	27	22	20	19
5	65	53	46	40	58	48	41	36	38	33	29	29	25	23	20	18	16
6	59	48	40	34	53	43	36	31	34	29	26	26	23	20	18	16	14
7	55	43	35	30	49	39	32	27	31	26	22	24	20	18	17	14	13
8	51	39	31	26	45	35	29	24	28	23	20	21	18	16	15	13	11
9	47	35	28	23	42	32	26	21	26	21	18	20	16	14	14	12	10
10	44	32	25	21	39	29	23	19	24	19	16	18	15	12	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3658	3658	3658
5°	3658	3573	3580
10°	3628	3491	3480
15°	3580	3393	3363
20°	3516	3280	3228
25°	3446	3156	3084
30°	3364	3026	2932
35°	3274	2891	2761
40°	3183	2748	2610
45°	3083	2609	2450
50°	2973	2451	2262
55°	2865	2276	2090
60°	2735	2092	1889
65°	2580	1879	1682
70°	2423	1635	1443
75°	2158	1346	1167
80°	1839	1005	859
85°	1418	595	472

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3083 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.9	1.0
10°-20°	152.2	2.9
20°-30°	224.7	4.3
30°-40°	262.1	5.0
40°-50°	263.3	5.1
50°-60°	231.1	4.4
60°-70°	172.1	3.3
70°-80°	98.3	1.9
80°-90°	30.3	0.6
90°-100°	370.8	7.1
100°-110°	770.1	14.8
110°-120°	719.3	13.9
120°-130°	582.1	11.2
130°-140°	467.7	9.0
140°-150°	353.0	6.8
150°-160°	248.5	4.8
160°-170°	146.5	2.8
170°-180°	47.6	0.9
0°-30°	430.7	8.3
0°-40°	692.8	13.3
0°-60°	1187.2	22.9
0°-90°	1488.0	28.7
90°-120°	1860.2	35.8
90°-150°	3263.0	62.8
90°-180°	3706.0	71.4
0°-180°	5193.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	571	571	571	571	571	
5°	570	569	565	569	568	54
15°	543	542	537	539	539	153
25°	493	491	485	486	485	227
35°	426	424	418	416	412	266
45°	349	347	342	336	335	269
55°	266	264	258	254	251	237
65°	179	178	173	169	168	178
75°	95	94	92	91	89	101
85°	25	25	25	25	24	27
90°	1	9	16	21	23	4
95°	33	97	880	399	233	34
105°	112	157	720	1417	1315	118
115°	200	242	578	1245	1465	197
125°	278	326	554	991	1154	247
135°	326	392	550	830	959	253
145°	379	434	552	687	756	238
155°	433	466	538	608	634	199
165°	472	485	516	547	556	133
175°	491	491	495	501	499	47
180°	492	492	492	492	492	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	570.9	570.9	570.9	570.9	570.9
2.5°	572.7	571.4	566.9	571.4	570.9
5°	570.0	569.1	564.6	568.7	568.2
7.5°	566.0	565.1	560.1	564.2	563.7
10°	560.1	559.2	554.2	557.8	557.4
12.5°	552.9	551.1	546.5	549.3	549.3
15°	543.4	542.0	537.1	539.3	539.3
17.5°	533.4	531.2	526.2	528.9	526.7
20°	520.3	519.4	513.6	516.7	514.5
22.5°	507.2	505.4	500.0	501.8	500.5
25°	493.2	491.0	485.1	486.0	484.7
27.5°	477.0	475.6	469.8	470.2	468.9
30°	461.2	459.8	453.0	452.1	450.8
32.5°	444.0	441.8	435.9	434.1	431.4
35°	425.9	424.1	417.8	415.6	411.9
37.5°	407.4	405.2	399.3	396.1	393.9
40°	388.5	386.2	379.9	375.8	374.4
42.5°	368.1	366.3	360.0	356.4	354.1
45°	348.7	346.9	341.5	336.1	334.7
47.5°	327.5	327.9	321.2	315.7	312.6
50°	307.1	305.8	300.4	294.5	291.3
52.5°	286.4	285.5	279.6	274.6	271.0
55°	265.6	264.2	257.9	253.8	250.7
57.5°	243.5	243.0	237.6	232.2	230.8
60°	222.7	220.9	215.9	211.4	208.2
62.5°	201.0	199.6	195.6	190.6	188.4
65°	179.3	178.4	173.4	169.4	167.6
67.5°	158.1	156.3	152.7	149.1	148.2
70°	138.2	136.0	131.9	129.2	127.4
72.5°	116.5	115.2	112.9	109.8	108.0
75°	95.3	94.4	92.1	90.8	89.0
77.5°	75.4	75.0	73.6	72.7	71.4
80°	56.9	56.9	56.0	55.6	54.7
82.5°	40.7	39.7	39.7	38.8	38.8
85°	24.8	25.3	25.3	24.8	23.9
87.5°	12.2	12.2	11.7	11.7	10.8
90°	1.0	8.9	15.9	20.8	22.8
92.5°	14.9	81.4	396.1	105.7	73.5
95°	32.8	96.8	879.5	399.0	233.3
97.5°	50.6	104.7	950.0	720.7	511.2
100°	69.5	120.1	896.4	1018.4	774.3
102.5°	90.3	137.5	802.1	1270.6	1068.1
105°	112.2	156.8	719.7	1417.0	1315.3
107.5°	133.0	177.2	658.1	1458.2	1464.2
110°	155.8	198.5	617.4	1419.0	1531.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	178.7	219.9	593.6	1337.1	1523.7
115°	200.5	241.7	577.7	1245.3	1465.1
117.5°	220.4	264.0	568.8	1161.9	1376.8
120°	240.2	285.4	562.8	1091.9	1291.4
122.5°	261.1	306.2	557.9	1035.8	1216.0
125°	277.9	325.6	553.9	990.6	1154.4
127.5°	291.8	344.4	551.9	952.0	1097.9
130°	304.7	362.3	549.9	912.8	1053.2
132.5°	314.7	378.2	549.9	870.6	1008.5
135°	325.6	391.6	549.9	830.4	958.9
137.5°	339.5	404.0	550.9	788.2	907.3
140°	351.4	414.4	551.9	749.4	852.7
142.5°	365.3	424.4	552.9	716.2	802.1
145°	379.2	434.3	551.9	687.4	756.4
147.5°	394.1	443.2	549.9	662.6	715.7
150°	407.0	451.2	546.9	642.2	682.9
152.5°	420.9	459.1	543.0	624.8	657.1
155°	432.8	465.6	538.0	608.0	634.3
157.5°	443.7	472.0	533.0	592.1	613.5
160°	454.6	477.0	528.1	576.2	592.6
162.5°	463.6	482.0	522.1	561.8	573.7
165°	472.5	485.4	516.2	547.4	555.9
167.5°	478.5	487.4	510.2	534.0	539.0
170°	484.4	489.9	505.3	521.1	524.1
172.5°	488.4	490.9	499.3	510.7	510.2
175°	491.4	491.4	495.3	501.3	499.3
177.5°	493.3	491.4	492.4	495.3	492.4
180°	492.4	492.4	492.4	492.4	492.4

(END OF REPORT)