

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: P1027772

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

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027772
REPORT IS A COMBINATION OF REPORTS P1001858 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-F
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

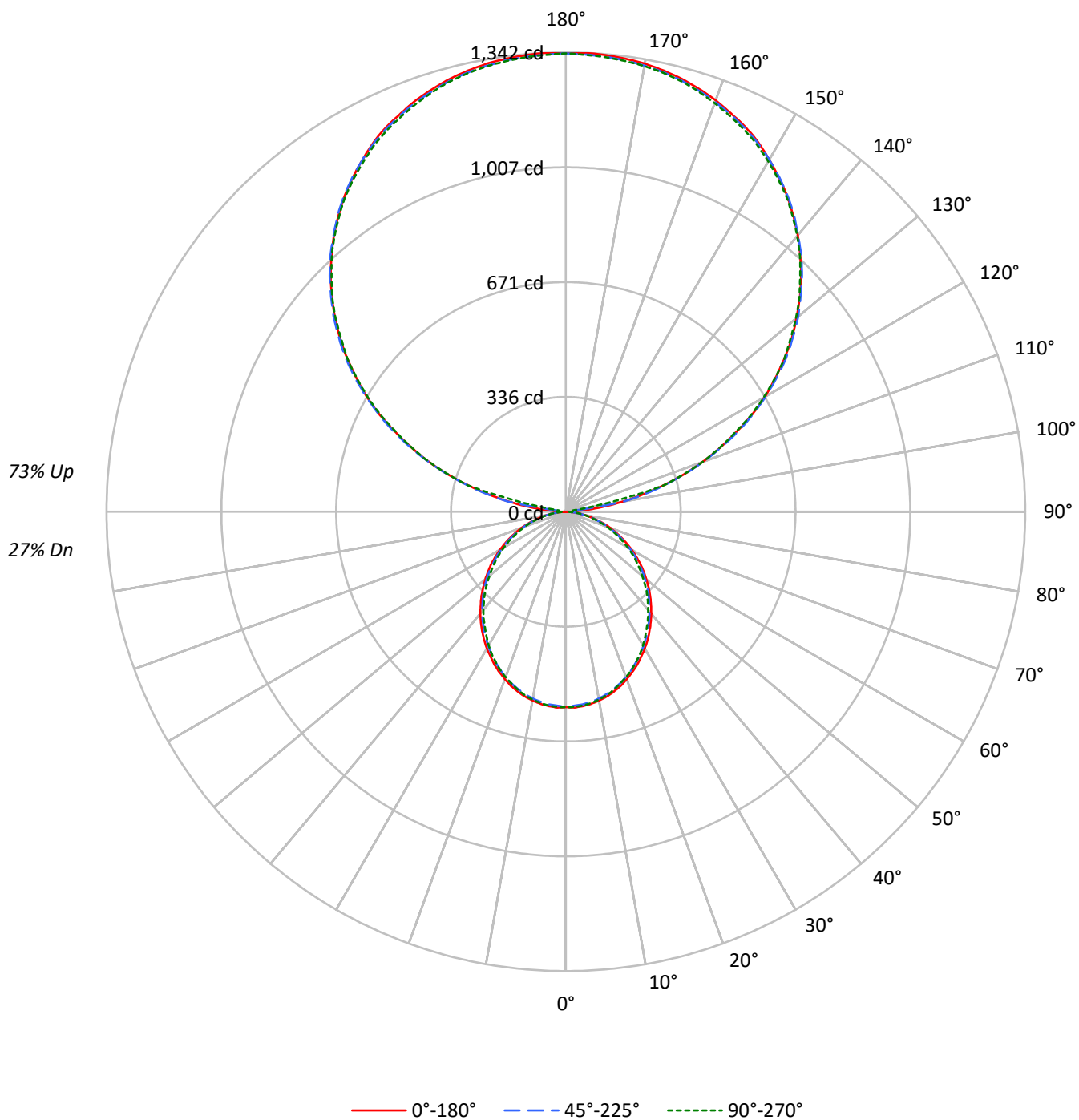
Lumens per Lamp: N/A
Luminaire Lumens: 5602.0 lumens
Efficiency: N/A
Efficacy: 135.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 41.5
Input Voltage (V):
Input Current (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	102	102	102	102	91	91	91	91	70	70	70	52	52	52	35	35	35
1	93	88	85	81	82	79	76	73	61	59	57	45	44	43	30	30	29
2	84	77	71	66	75	69	64	60	54	50	47	40	38	36	27	26	24
3	77	68	61	55	68	61	55	50	47	43	40	35	32	30	24	22	21
4	70	60	52	46	62	54	47	42	42	37	34	31	28	26	21	19	18
5	64	53	45	39	57	48	41	36	37	33	29	28	25	22	19	17	16
6	59	47	40	34	52	43	36	31	34	29	25	25	22	19	17	15	14
7	54	43	35	30	48	38	32	27	30	26	22	23	19	17	16	14	12
8	50	39	31	26	45	35	28	24	28	23	19	21	17	15	14	12	11
9	47	35	28	23	42	32	25	21	25	20	17	19	16	13	13	11	10
10	44	32	25	20	39	29	23	19	23	19	15	18	14	12	12	10	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	2.7
20°-30°	224.7	4.0
30°-40°	262.1	4.7
40°-50°	263.3	4.7
50°-60°	231.1	4.1
60°-70°	172.1	3.1
70°-80°	98.3	1.8
80°-90°	30.3	0.5
90°-100°	45.4	0.8
100°-110°	302.3	5.4
110°-120°	544.3	9.7
120°-130°	698.7	12.5
130°-140°	751.4	13.4
140°-150°	705.3	12.6
150°-160°	570.5	10.2
160°-170°	368.9	6.6
170°-180°	127.2	2.3
0°-30°	430.7	7.7
0°-40°	692.8	12.4
0°-60°	1187.2	21.2
0°-90°	1488.0	26.6
90°-120°	892.0	15.9
90°-150°	3047.4	54.4
90°-180°	4114.0	73.4
0°-180°	5602.0	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	24	5
95°	57	54	16	21	21	69
105°	292	296	296	296	295	309
115°	548	553	554	550	544	543
125°	779	786	786	782	779	696
135°	972	978	976	974	968	749
145°	1127	1129	1129	1130	1124	705
155°	1241	1235	1237	1240	1232	572
165°	1310	1304	1304	1310	1303	370
175°	1339	1333	1334	1342	1333	128
180°	1339	1339	1339	1339	1339	

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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	23.8
92.5°	18.9	9.9	15.9	20.8	21.8
95°	56.6	53.6	15.9	20.8	20.8
97.5°	106.2	112.2	17.9	19.9	20.8
100°	165.8	168.8	172.7	24.8	20.8
102.5°	226.4	230.3	232.3	234.3	150.9
105°	291.9	295.9	295.9	295.9	294.9
107.5°	359.4	359.4	361.4	362.4	358.4
110°	424.9	424.9	426.9	423.9	424.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	486.5	489.5	490.4	486.5	484.5
115°	548.0	553.0	554.0	550.0	544.1
117.5°	612.6	612.6	616.5	610.6	608.6
120°	672.1	671.1	674.1	672.1	667.2
122.5°	724.7	729.7	730.7	728.7	722.8
125°	779.3	786.3	786.3	782.3	779.3
127.5°	832.0	836.9	835.9	834.0	826.0
130°	879.6	884.6	885.6	882.6	877.6
132.5°	927.3	933.2	930.3	930.3	925.3
135°	972.0	977.9	975.9	973.9	968.0
137.5°	1013.7	1019.6	1017.6	1017.6	1012.7
140°	1054.4	1056.3	1055.3	1057.3	1051.4
142.5°	1091.1	1092.1	1094.1	1094.1	1088.1
145°	1126.8	1128.8	1128.8	1129.8	1123.9
147.5°	1158.6	1158.6	1159.6	1160.6	1153.6
150°	1188.4	1186.4	1188.4	1190.4	1182.4
152.5°	1217.2	1212.2	1214.2	1216.2	1209.2
155°	1241.0	1235.0	1237.0	1240.0	1232.1
157.5°	1259.9	1256.9	1256.9	1259.9	1251.9
160°	1279.7	1273.8	1274.8	1278.7	1270.8
162.5°	1295.6	1289.6	1290.6	1296.6	1287.7
165°	1309.5	1303.5	1304.5	1310.5	1302.6
167.5°	1320.4	1314.5	1315.5	1322.4	1313.5
170°	1329.4	1322.4	1323.4	1331.3	1322.4
172.5°	1335.3	1328.4	1330.4	1337.3	1328.4
175°	1339.3	1333.3	1334.3	1342.3	1333.3
177.5°	1342.3	1336.3	1337.3	1344.3	1336.3
180°	1339.3	1339.3	1339.3	1339.3	1339.3

(END OF REPORT)