

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: P1027773

Luminaire Tested: S125DIP-B375D1090UB35-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027773
REPORT IS A COMBINATION OF REPORTS P1001859 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-F1
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

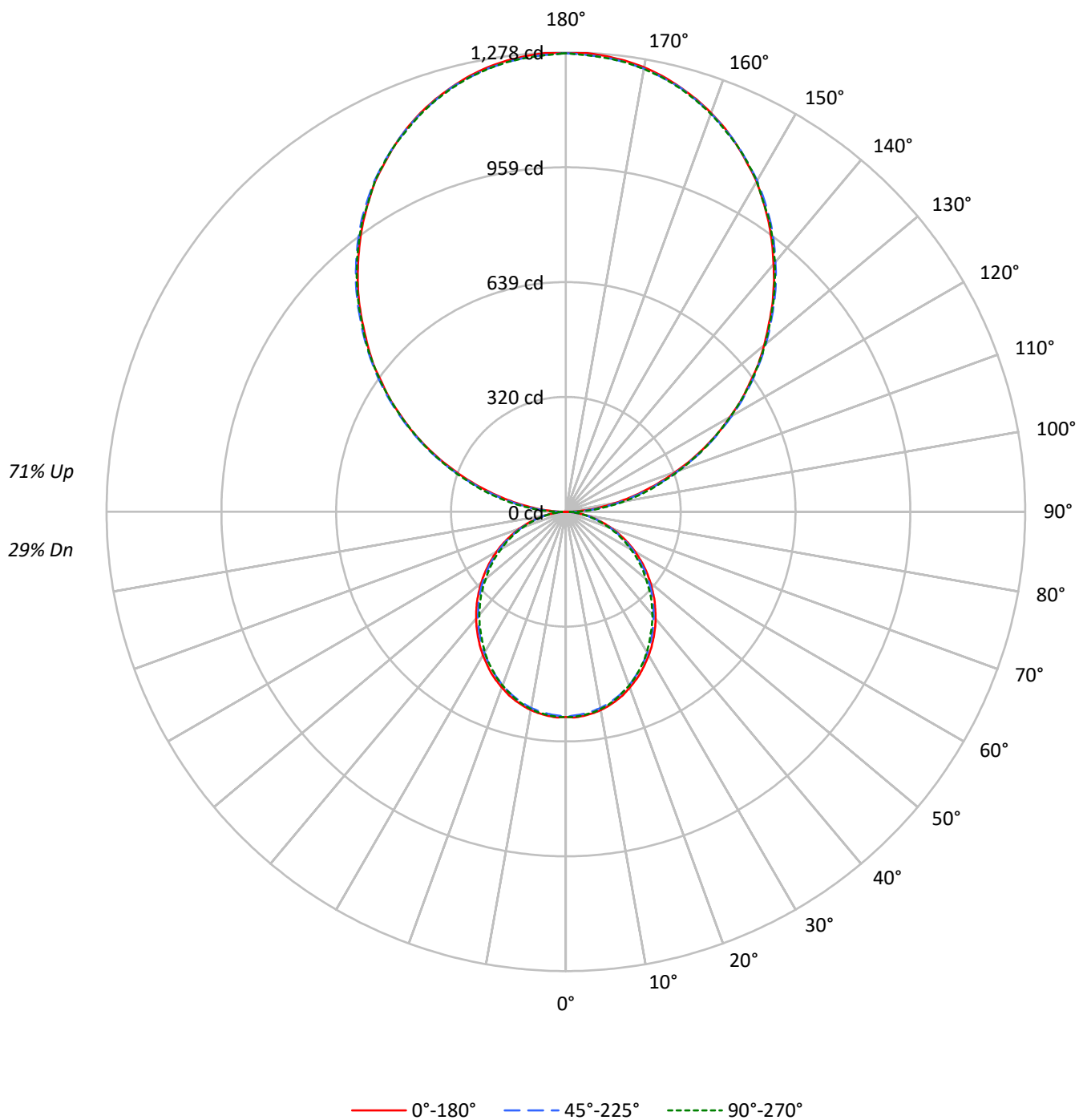
Lumens per Lamp: N/A
Luminaire Lumens: 5048.0 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

TEST NUMBER: P1027773

CATALOG NUMBER: S125DIP-B375D1090UB35-4F0-XX-W2A-F1

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	92	92	92	92	72	72	72	54	54	54	37	37	37
1	93	89	85	82	83	80	77	74	63	61	59	47	46	45	33	32	31
2	85	78	72	67	76	70	65	60	55	52	49	41	39	37	29	28	26
3	77	68	61	55	69	61	55	50	48	44	41	37	34	31	26	24	22
4	71	60	53	47	63	54	48	43	43	38	35	33	29	27	23	21	19
5	65	53	46	40	58	48	41	36	38	33	30	29	26	23	21	18	17
6	59	48	40	34	53	43	36	31	34	29	26	26	23	20	19	16	15
7	55	43	35	30	49	39	32	27	31	26	23	24	20	18	17	15	13
8	51	39	31	26	45	35	29	24	28	23	20	22	18	16	16	13	12
9	47	35	28	23	42	32	26	21	26	21	18	20	17	14	14	12	10
10	44	32	25	21	39	29	23	19	24	19	16	18	15	13	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

TEST NUMBER: P1027773

CATALOG NUMBER: S125DIP-B375D1090UB35-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.9	1.1
10°-20°	152.2	3.0
20°-30°	224.7	4.5
30°-40°	262.1	5.2
40°-50°	263.3	5.2
50°-60°	231.1	4.6
60°-70°	172.1	3.4
70°-80°	98.3	1.9
80°-90°	30.3	0.6
90°-100°	84.8	1.7
100°-110°	252.0	5.0
110°-120°	427.4	8.5
120°-130°	562.6	11.1
130°-140°	630.4	12.5
140°-150°	617.9	12.2
150°-160°	519.1	10.3
160°-170°	345.0	6.8
170°-180°	120.7	2.4
0°-30°	430.7	8.5
0°-40°	692.8	13.7
0°-60°	1187.2	23.5
0°-90°	1488.0	29.5
90°-120°	764.2	15.1
90°-150°	2575.2	51.0
90°-180°	3560.0	70.5
0°-180°	5048.0	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	6
95°	64	66	76	83	85	67
105°	226	231	237	243	246	241
115°	428	432	434	433	432	423
125°	624	630	631	629	628	559
135°	812	818	819	819	815	626
145°	984	988	991	991	988	615
155°	1126	1126	1127	1131	1126	519
165°	1224	1222	1223	1227	1221	345
175°	1273	1269	1269	1275	1268	121
180°	1276	1276	1276	1276	1276	

TEST NUMBER: P1027773

CATALOG NUMBER: S125DIP-B375D1090UB35-4F0-XX-W2A-F1

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°	29.8	34.7	43.7	50.6	52.6
95°	64.5	66.5	76.4	83.4	85.4
97.5°	99.3	100.3	114.2	120.1	121.1
100°	139.0	139.0	151.9	160.8	162.8
102.5°	181.7	186.6	191.6	201.5	204.5
105°	226.3	231.3	237.2	243.2	246.2
107.5°	275.0	279.9	284.9	287.9	287.9
110°	325.6	330.6	333.5	336.5	335.5

TEST NUMBER: P1027773

CATALOG NUMBER: S125DIP-B375D1090UB35-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	377.2	379.2	383.2	384.2	382.2
115°	427.8	431.8	433.8	432.8	431.8
117.5°	479.5	480.4	482.4	483.4	479.5
120°	527.1	532.1	533.1	533.1	529.1
122.5°	578.7	579.7	582.7	581.7	578.7
125°	624.4	630.3	631.3	629.3	628.4
127.5°	675.0	678.0	679.0	678.0	676.0
130°	719.7	724.6	726.6	725.6	723.7
132.5°	764.3	773.3	772.3	771.3	768.3
135°	812.0	818.0	818.9	818.9	815.0
137.5°	856.7	862.6	864.6	865.6	860.6
140°	899.4	904.3	907.3	909.3	904.3
142.5°	942.0	946.0	950.0	951.0	946.0
145°	983.7	987.7	990.7	990.7	987.7
147.5°	1022.4	1025.4	1027.4	1030.4	1022.4
150°	1061.2	1060.2	1064.1	1064.1	1062.1
152.5°	1092.9	1094.9	1095.9	1098.9	1094.9
155°	1125.7	1125.7	1126.7	1130.6	1125.7
157.5°	1155.5	1153.5	1154.5	1158.4	1151.5
160°	1181.3	1178.3	1179.3	1183.3	1178.3
162.5°	1204.1	1202.1	1202.1	1207.1	1201.1
165°	1224.0	1222.0	1223.0	1226.9	1221.0
167.5°	1241.8	1237.8	1237.8	1243.8	1237.8
170°	1255.7	1251.7	1251.7	1257.7	1250.8
172.5°	1265.6	1261.7	1261.7	1267.6	1261.7
175°	1272.6	1268.6	1268.6	1274.6	1267.6
177.5°	1277.6	1273.6	1272.6	1278.5	1271.6
180°	1275.6	1275.6	1275.6	1275.6	1275.6

(END OF REPORT)