

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: P1027438

Luminaire Tested: S125DIP-B1090D375UB50-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027438
REPORT IS A COMBINATION OF REPORTS P1001398 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D375UB50-4F0-XX-W2A-F4
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

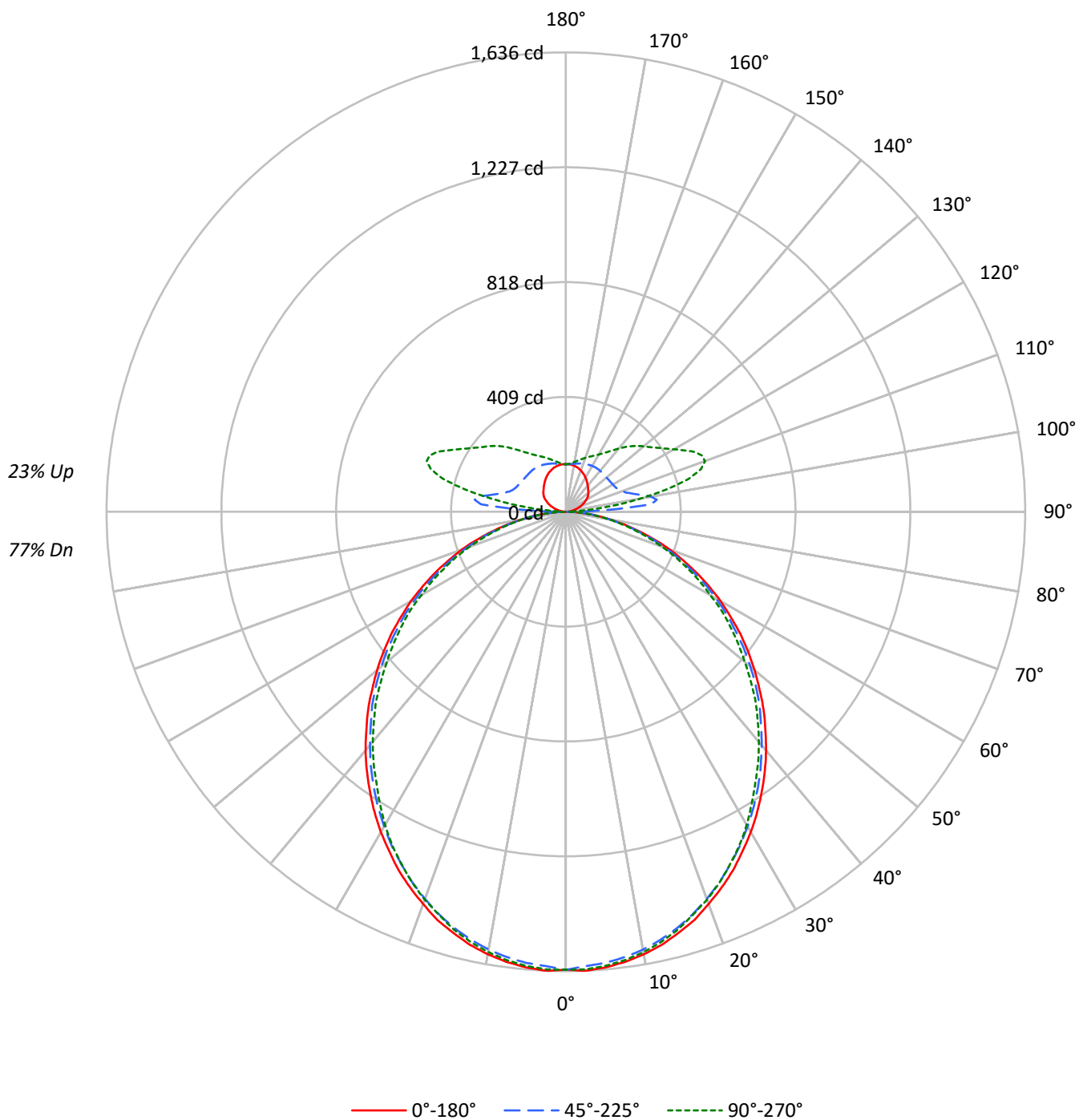
Lumens per Lamp: N/A
Luminaire Lumens: 5521.6 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 56.1
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: P1027438

CATALOG NUMBER: S125DIP-B1090D375UB50-4F0-XX-W2A-F4

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	114	114	114	114	108	108	108	108	98	98	98	89	89	89	81	81	81
1	104	99	95	91	99	95	91	88	86	83	81	78	76	74	71	70	68
2	94	87	80	75	90	83	77	72	76	71	67	69	65	62	63	60	57
3	86	76	68	62	82	73	66	60	67	61	56	61	56	52	56	52	49
4	79	68	59	53	75	65	57	51	59	53	48	54	49	45	50	45	42
5	73	60	52	45	69	58	50	44	53	47	42	49	43	39	45	40	37
6	67	54	46	40	64	52	44	39	48	41	36	44	39	34	41	36	32
7	62	49	41	35	59	47	40	34	44	37	32	40	35	30	37	32	29
8	58	45	37	31	55	43	36	30	40	33	29	37	31	27	34	29	26
9	54	41	33	28	51	40	32	27	37	30	26	34	29	25	32	27	23
10	50	38	30	25	48	36	29	25	34	28	23	32	26	22	29	25	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10450	10450	10450
5°	10450	10207	10227
10°	10364	9973	9942
15°	10228	9693	9606
20°	10043	9369	9222
25°	9846	9015	8810
30°	9608	8646	8375
35°	9354	8259	7889
40°	9091	7851	7457
45°	8806	7453	6997
50°	8493	7001	6462
55°	8183	6503	5969
60°	7813	5978	5396
65°	7372	5370	4804
70°	6920	4671	4121
75°	6166	3846	3332
80°	5254	2873	2451
85°	4059	1700	1351

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8806 cd/sqm

TEST NUMBER: P1027438

CATALOG NUMBER: S125DIP-B1090D375UB50-4F0-XX-W2A-F4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.9	2.8
10°-20°	434.7	7.9
20°-30°	641.8	11.6
30°-40°	748.8	13.6
40°-50°	752.0	13.6
50°-60°	660.2	12.0
60°-70°	491.7	8.9
70°-80°	280.8	5.1
80°-90°	81.7	1.5
90°-100°	127.6	2.3
100°-110°	265.2	4.8
110°-120°	247.7	4.5
120°-130°	200.4	3.6
130°-140°	161.0	2.9
140°-150°	121.6	2.2
150°-160°	85.6	1.5
160°-170°	50.4	0.9
170°-180°	16.4	0.3
0°-30°	1230.4	22.3
0°-40°	1979.2	35.8
0°-60°	3391.4	61.4
0°-90°	4245.7	76.9
90°-120°	640.5	11.6
90°-150°	1123.5	20.3
90°-180°	1276.0	23.1
0°-180°	5521.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1631	1631	1631	1631	1631	
5°	1628	1626	1613	1624	1623	155
15°	1552	1548	1534	1541	1541	438
25°	1409	1403	1386	1388	1384	648
35°	1217	1212	1194	1187	1177	761
45°	996	991	976	960	956	767
55°	759	755	737	725	716	677
65°	512	510	496	484	479	508
75°	272	270	263	259	254	290
85°	71	72	72	71	68	78
90°	0	3	6	7	8	6
95°	11	33	303	137	80	12
105°	39	54	248	488	453	41
115°	69	83	199	429	504	68
125°	96	112	191	341	398	85
135°	112	135	189	286	330	87
145°	131	150	190	237	260	82
155°	149	160	185	209	218	69
165°	163	167	178	188	191	46
175°	169	169	171	173	172	16
180°	170	170	170	170	170	

TEST NUMBER: P1027438

CATALOG NUMBER: S125DIP-B1090D375UB50-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1631.0	1631.0	1631.0	1631.0	1631.0
2.5°	1636.1	1632.3	1619.4	1632.3	1631.0
5°	1628.4	1625.8	1612.9	1624.5	1623.2
7.5°	1616.8	1614.2	1600.0	1611.6	1610.3
10°	1600.0	1597.4	1583.2	1593.5	1592.3
12.5°	1579.4	1574.2	1561.3	1569.0	1569.0
15°	1552.3	1548.4	1534.2	1540.6	1540.6
17.5°	1523.9	1517.4	1503.2	1511.0	1504.5
20°	1486.4	1483.9	1467.1	1476.1	1469.7
22.5°	1449.0	1443.9	1428.4	1433.5	1429.7
25°	1409.0	1402.6	1385.8	1388.4	1384.5
27.5°	1362.6	1358.7	1341.9	1343.2	1339.4
30°	1317.4	1313.5	1294.2	1291.6	1287.7
32.5°	1268.4	1261.9	1245.2	1240.0	1232.3
35°	1216.8	1211.6	1193.5	1187.1	1176.8
37.5°	1163.9	1157.4	1140.6	1131.6	1125.2
40°	1109.7	1103.2	1085.2	1073.5	1069.7
42.5°	1051.6	1046.4	1028.4	1018.1	1011.6
45°	996.1	991.0	975.5	960.0	956.1
47.5°	935.5	936.8	917.4	901.9	892.9
50°	877.4	873.5	858.1	841.3	832.3
52.5°	818.1	815.5	798.7	784.5	774.2
55°	758.7	754.8	736.8	725.2	716.1
57.5°	695.5	694.2	678.7	663.2	659.4
60°	636.1	631.0	616.8	603.9	594.8
62.5°	574.2	570.3	558.7	544.5	538.1
65°	512.3	509.7	495.5	483.9	478.7
67.5°	451.6	446.5	436.1	425.8	423.2
70°	394.8	388.4	376.8	369.0	363.9
72.5°	332.9	329.0	322.6	313.5	308.4
75°	272.3	269.7	263.2	259.4	254.2
77.5°	215.5	214.2	210.3	207.7	203.9
80°	162.6	162.6	160.0	158.7	156.1
82.5°	116.1	113.5	113.5	111.0	111.0
85°	71.0	72.3	72.3	71.0	68.4
87.5°	34.8	34.8	33.5	33.5	31.0
90°	0.3	3.0	5.5	7.2	7.9
92.5°	5.1	28.0	136.4	36.4	25.3
95°	11.3	33.3	302.8	137.4	80.3
97.5°	17.4	36.0	327.1	248.1	176.0
100°	23.9	41.4	308.6	350.7	266.6
102.5°	31.1	47.3	276.2	437.5	367.8
105°	38.6	54.0	247.8	487.9	452.9
107.5°	45.8	61.0	226.6	502.1	504.1
110°	53.7	68.4	212.6	488.6	527.4

TEST NUMBER: P1027438

CATALOG NUMBER: S125DIP-B1090D375UB50-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	61.5	75.7	204.4	460.4	524.6
115°	69.0	83.2	198.9	428.8	504.5
117.5°	75.9	90.9	195.8	400.1	474.1
120°	82.7	98.2	193.8	376.0	444.7
122.5°	89.9	105.4	192.1	356.6	418.7
125°	95.7	112.2	190.7	341.1	397.5
127.5°	100.5	118.6	190.0	327.8	378.0
130°	104.9	124.8	189.4	314.3	362.6
132.5°	108.3	130.2	189.4	299.8	347.3
135°	112.1	134.8	189.4	285.9	330.2
137.5°	116.9	139.1	189.7	271.4	312.4
140°	121.0	142.7	190.0	258.0	293.6
142.5°	125.8	146.1	190.4	246.6	276.2
145°	130.6	149.6	190.0	236.7	260.4
147.5°	135.7	152.6	189.4	228.2	246.4
150°	140.1	155.3	188.3	221.2	235.2
152.5°	144.9	158.0	187.0	215.2	226.3
155°	149.0	160.3	185.3	209.4	218.4
157.5°	152.8	162.5	183.5	203.9	211.2
160°	156.5	164.2	181.8	198.4	204.0
162.5°	159.6	165.9	179.8	193.4	197.6
165°	162.7	167.1	177.7	188.5	191.4
167.5°	164.7	167.8	175.7	183.9	185.6
170°	166.8	168.7	174.0	179.4	180.5
172.5°	168.2	169.0	171.9	175.8	175.7
175°	169.2	169.2	170.6	172.6	171.9
177.5°	169.9	169.2	169.5	170.6	169.5
180°	169.5	169.5	169.5	169.5	169.5

(END OF REPORT)