

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: P1027428

Luminaire Tested: S125DIP-B1090D375UB40-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027428
REPORT IS A COMBINATION OF REPORTS P1001388 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D375UB40-4F0-XX-W2A-F1
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

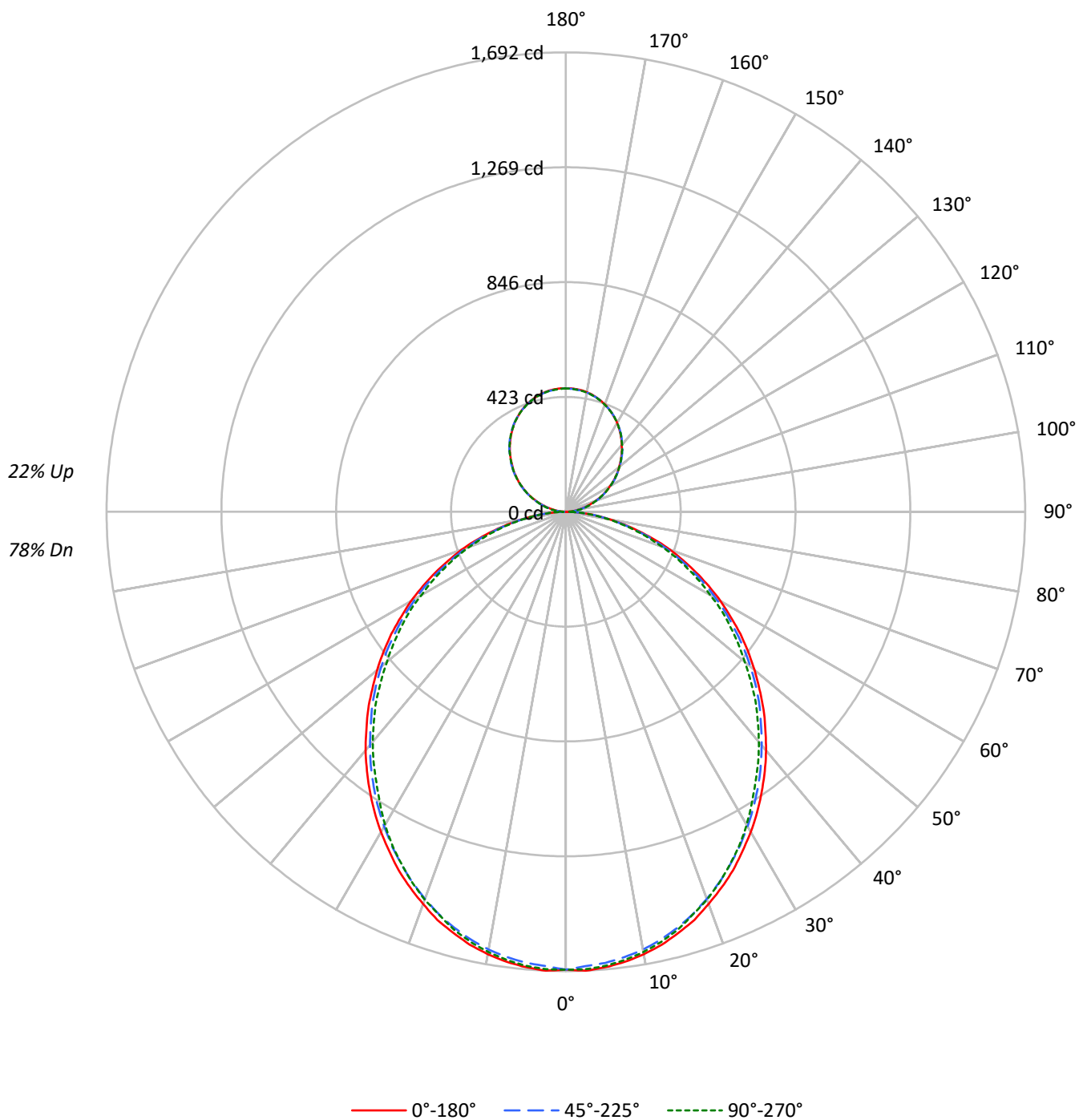
Lumens per Lamp: N/A
Luminaire Lumens: 5659.0 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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

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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	114	114	114	114	108	108	108	108	99	99	99	90	90	90	81	81	81	78		
1	104	99	95	92	99	95	91	88	87	84	81	79	77	75	72	70	69	65		
2	95	87	80	75	90	83	77	72	76	71	67	69	66	62	63	60	58	55		
3	86	76	69	62	82	73	66	60	67	61	56	61	57	53	56	52	49	46		
4	79	68	59	53	75	65	57	51	60	53	48	55	49	45	50	46	42	40		
5	73	60	52	46	69	58	50	44	53	47	42	49	44	39	45	41	37	34		
6	67	54	46	40	64	52	44	39	48	42	37	44	39	35	41	36	33	30		
7	62	49	41	35	59	47	40	34	44	37	32	41	35	31	37	33	29	27		
8	58	45	37	31	55	43	36	30	40	34	29	37	32	27	34	30	26	24		
9	54	41	33	28	51	40	32	27	37	31	26	34	29	25	32	27	24	22		
10	51	38	30	25	48	37	29	25	34	28	24	32	26	22	30	25	21	20		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10807	10807	10807
5°	10807	10556	10576
10°	10717	10314	10281
15°	10577	10024	9935
20°	10387	9689	9537
25°	10183	9322	9111
30°	9936	8941	8662
35°	9673	8542	8159
40°	9401	8119	7711
45°	9107	7707	7237
50°	8783	7240	6683
55°	8462	6724	6174
60°	8081	6181	5582
65°	7623	5553	4969
70°	7157	4830	4262
75°	6376	3977	3446
80°	5432	2971	2535
85°	4197	1756	1397

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9107 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.2	2.8
10°-20°	449.6	7.9
20°-30°	663.7	11.7
30°-40°	774.4	13.7
40°-50°	777.7	13.7
50°-60°	682.7	12.1
60°-70°	508.5	9.0
70°-80°	290.4	5.1
80°-90°	84.5	1.5
90°-100°	30.2	0.5
100°-110°	89.8	1.6
110°-120°	152.3	2.7
120°-130°	200.4	3.5
130°-140°	224.6	4.0
140°-150°	220.1	3.9
150°-160°	184.9	3.3
160°-170°	122.9	2.2
170°-180°	43.0	0.8
0°-30°	1272.4	22.5
0°-40°	2046.8	36.2
0°-60°	3507.2	62.0
0°-90°	4390.7	77.6
90°-120°	272.3	4.8
90°-150°	917.4	16.2
90°-180°	1268.0	22.4
0°-180°	5659.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1687	1687	1687	1687	1687	
5°	1684	1681	1668	1680	1679	160
15°	1605	1601	1587	1593	1593	453
25°	1457	1450	1433	1436	1432	670
35°	1258	1253	1234	1228	1217	787
45°	1030	1025	1009	993	989	794
55°	785	781	762	750	741	700
65°	530	527	512	500	495	525
75°	282	279	272	268	263	300
85°	73	75	75	73	71	80
90°	0	3	6	7	8	6
95°	23	24	27	30	30	24
105°	81	82	84	87	88	86
115°	152	154	154	154	154	151
125°	222	225	225	224	224	199
135°	289	291	292	292	290	223
145°	350	352	353	353	352	219
155°	401	401	401	403	401	185
165°	436	435	436	437	435	123
175°	453	452	452	454	452	43
180°	454	454	454	454	454	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1686.7	1686.7	1686.7	1686.7	1686.7
2.5°	1692.0	1688.0	1674.7	1688.0	1686.7
5°	1684.0	1681.3	1668.0	1680.0	1678.7
7.5°	1672.0	1669.3	1654.6	1666.7	1665.3
10°	1654.6	1652.0	1637.3	1648.0	1646.6
12.5°	1633.3	1628.0	1614.6	1622.6	1622.6
15°	1605.3	1601.3	1586.6	1593.3	1593.3
17.5°	1575.9	1569.2	1554.6	1562.6	1555.9
20°	1537.2	1534.6	1517.2	1526.5	1519.9
22.5°	1498.5	1493.2	1477.2	1482.5	1478.5
25°	1457.2	1450.5	1433.1	1435.8	1431.8
27.5°	1409.1	1405.1	1387.8	1389.1	1385.1
30°	1362.4	1358.4	1338.4	1335.7	1331.7
32.5°	1311.7	1305.0	1287.7	1282.4	1274.3
35°	1258.3	1253.0	1234.3	1227.6	1217.0
37.5°	1203.6	1197.0	1179.6	1170.3	1163.6
40°	1147.6	1140.9	1122.2	1110.2	1106.2
42.5°	1087.5	1082.2	1063.5	1052.8	1046.2
45°	1030.2	1024.8	1008.8	992.8	988.8
47.5°	967.4	968.8	948.8	932.7	923.4
50°	907.4	903.4	887.4	870.0	860.7
52.5°	846.0	843.3	826.0	811.3	800.6
55°	784.6	780.6	761.9	749.9	740.6
57.5°	719.2	717.9	701.9	685.9	681.9
60°	657.9	652.5	637.8	624.5	615.2
62.5°	593.8	589.8	577.8	563.1	556.4
65°	529.8	527.1	512.4	500.4	495.1
67.5°	467.0	461.7	451.0	440.4	437.7
70°	408.3	401.7	389.6	381.6	376.3
72.5°	344.3	340.3	333.6	324.3	318.9
75°	281.6	278.9	272.2	268.2	262.9
77.5°	222.8	221.5	217.5	214.8	210.8
80°	168.1	168.1	165.5	164.1	161.5
82.5°	120.1	117.4	117.4	114.8	114.8
85°	73.4	74.7	74.7	73.4	70.7
87.5°	36.0	36.0	34.7	34.7	32.0
90°	0.4	3.2	5.7	7.4	8.5
92.5°	10.6	12.4	15.6	18.0	18.7
95°	23.0	23.7	27.2	29.7	30.4
97.5°	35.4	35.7	40.7	42.8	43.1
100°	49.5	49.5	54.1	57.3	58.0
102.5°	64.7	66.5	68.3	71.8	72.9
105°	80.6	82.4	84.5	86.6	87.7
107.5°	98.0	99.7	101.5	102.6	102.6
110°	116.0	117.8	118.8	119.9	119.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	134.4	135.1	136.5	136.9	136.2
115°	152.4	153.8	154.5	154.2	153.8
117.5°	170.8	171.2	171.9	172.2	170.8
120°	187.8	189.6	189.9	189.9	188.5
122.5°	206.2	206.5	207.6	207.2	206.2
125°	222.4	224.6	224.9	224.2	223.9
127.5°	240.5	241.5	241.9	241.5	240.8
130°	256.4	258.2	258.9	258.5	257.8
132.5°	272.3	275.5	275.1	274.8	273.7
135°	289.3	291.4	291.8	291.8	290.3
137.5°	305.2	307.3	308.0	308.4	306.6
140°	320.4	322.2	323.2	323.9	322.2
142.5°	335.6	337.0	338.4	338.8	337.0
145°	350.5	351.9	352.9	352.9	351.9
147.5°	364.3	365.3	366.0	367.1	364.3
150°	378.0	377.7	379.1	379.1	378.4
152.5°	389.4	390.1	390.4	391.5	390.1
155°	401.0	401.0	401.4	402.8	401.0
157.5°	411.6	410.9	411.3	412.7	410.2
160°	420.8	419.8	420.1	421.5	419.8
162.5°	429.0	428.3	428.3	430.0	427.9
165°	436.0	435.3	435.7	437.1	435.0
167.5°	442.4	441.0	441.0	443.1	441.0
170°	447.4	445.9	445.9	448.1	445.6
172.5°	450.9	449.5	449.5	451.6	449.5
175°	453.4	452.0	452.0	454.1	451.6
177.5°	455.1	453.7	453.4	455.5	453.0
180°	454.4	454.4	454.4	454.4	454.4

(END OF REPORT)