

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: P1027282

Luminaire Tested: S125RDIP-B850D375UB2750-4F0-XX-W2A-F_4000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027282
REPORT IS A COMBINATION OF REPORTS P1005813 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B850D375UB2750-4F0-XX-W2A-F_4000K
Description: Define 5 Regressed Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

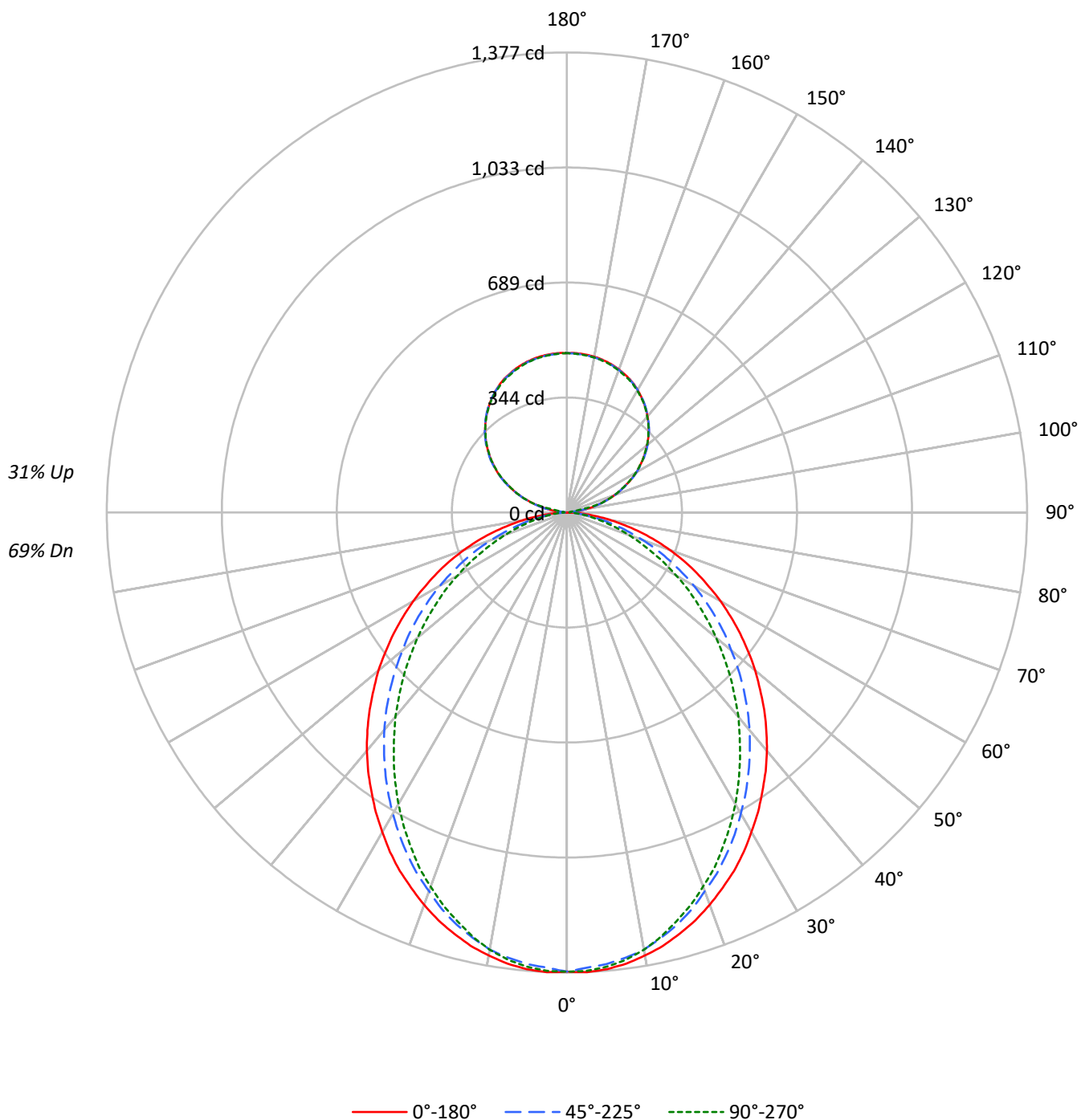
Lumens per Lamp: N/A
Luminaire Lumens: 4713.0 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 45.2
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	50	30	10
RCR																				
0	112	112	112	112	105	105	105	105	94	94	94	83	83	83	73	73	73			69
1	102	98	94	91	97	93	89	86	83	80	78	74	72	70	66	64	63			59
2	93	86	80	75	88	81	76	71	73	69	65	65	62	59	58	56	53			50
3	85	76	68	63	80	72	65	60	65	59	55	58	54	50	52	48	46			42
4	78	67	59	53	74	64	57	51	58	52	47	52	47	43	46	43	40			37
5	72	60	52	46	68	57	50	44	52	46	41	47	42	38	42	38	35			32
6	67	54	46	40	63	52	44	39	47	41	36	42	37	33	38	34	31			28
7	62	49	41	35	58	47	40	34	43	36	32	39	33	30	35	31	27			25
8	57	45	37	32	54	43	36	31	39	33	29	35	30	27	32	28	25			22
9	54	41	33	28	51	39	32	27	36	30	26	33	28	24	30	25	22			20
10	50	38	30	26	47	36	29	25	33	27	23	30	25	22	28	23	20			19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8805	8805	8805
5°	8806	8586	8600
10°	8720	8369	8296
15°	8597	8066	7896
20°	8444	7703	7477
25°	8269	7346	7027
30°	8054	6955	6556
35°	7835	6558	6054
40°	7628	6150	5564
45°	7377	5710	5052
50°	7123	5242	4530
55°	6829	4782	3989
60°	6528	4255	3428
65°	6169	3667	2823
70°	5750	2985	2222
75°	5172	2244	1619
80°	4359	1454	1091
85°	3265	781	614

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7377 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.3	2.7
10°-20°	361.5	7.7
20°-30°	524.1	11.1
30°-40°	597.1	12.7
40°-50°	582.0	12.3
50°-60°	489.8	10.4
60°-70°	343.3	7.3
70°-80°	176.0	3.7
80°-90°	44.6	0.9
90°-100°	16.2	0.3
100°-110°	107.7	2.3
110°-120°	193.9	4.1
120°-130°	248.8	5.3
130°-140°	267.6	5.7
140°-150°	251.2	5.3
150°-160°	203.2	4.3
160°-170°	131.4	2.8
170°-180°	45.3	1.0
0°-30°	1014.9	21.5
0°-40°	1612.1	34.2
0°-60°	2683.9	56.9
0°-90°	3247.7	68.9
90°-120°	317.7	6.7
90°-150°	1085.4	23.0
90°-180°	1465.0	31.1
0°-180°	4713.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1374	1374	1374	1374	1374	
5°	1372	1368	1357	1367	1365	130
15°	1305	1298	1277	1276	1266	368
25°	1183	1168	1129	1116	1104	545
35°	1019	994	948	918	903	638
45°	834	804	747	706	690	644
55°	633	600	542	495	478	566
65°	429	393	338	297	281	425
75°	228	197	154	131	124	241
85°	57	38	33	32	31	63
90°	0	3	6	7	8	4
95°	20	19	6	7	7	25
105°	104	105	105	105	105	110
115°	195	197	197	196	194	194
125°	278	280	280	279	278	248
135°	346	348	348	347	345	267
145°	401	402	402	402	400	251
155°	442	440	441	442	439	204
165°	466	464	465	467	464	132
175°	477	475	475	478	475	45
180°	477	477	477	477	477	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1374.3	1374.3	1374.3	1374.3	1374.3
2.5°	1377.4	1374.3	1363.9	1374.3	1373.3
5°	1372.2	1368.1	1356.7	1367.0	1365.0
7.5°	1361.9	1357.7	1344.2	1352.5	1350.4
10°	1346.3	1343.2	1328.6	1331.7	1328.6
12.5°	1328.6	1324.5	1303.7	1305.8	1300.6
15°	1304.8	1298.5	1276.7	1275.7	1266.4
17.5°	1279.8	1270.5	1244.6	1239.4	1232.1
20°	1249.7	1239.4	1206.2	1201.0	1191.6
22.5°	1216.5	1206.2	1170.9	1159.4	1152.2
25°	1183.3	1167.7	1129.3	1115.8	1104.4
27.5°	1145.9	1127.3	1086.8	1069.1	1057.7
30°	1104.4	1084.7	1041.1	1017.2	1007.9
32.5°	1063.9	1040.1	995.4	968.5	956.0
35°	1019.3	994.4	947.7	917.6	903.1
37.5°	976.8	946.7	898.9	863.6	849.1
40°	931.1	899.9	850.1	810.7	798.2
42.5°	883.3	851.2	799.3	761.9	742.2
45°	834.5	804.4	747.4	705.8	690.3
47.5°	783.7	752.5	695.5	652.9	635.3
50°	735.9	701.7	642.5	598.9	583.4
52.5°	684.0	648.7	593.7	546.0	530.4
55°	633.2	600.0	541.8	495.1	478.5
57.5°	581.3	546.0	489.9	444.3	429.7
60°	531.5	495.1	439.1	393.4	377.8
62.5°	478.5	444.3	387.2	345.7	330.1
65°	428.7	393.4	338.4	296.9	281.3
67.5°	378.9	343.6	290.6	251.2	238.7
70°	328.0	292.7	240.8	208.6	196.2
72.5°	278.2	243.9	196.2	167.1	159.9
75°	228.4	197.2	153.6	130.8	123.5
77.5°	177.5	152.6	116.3	98.6	92.4
80°	134.9	110.0	81.0	71.6	69.5
82.5°	93.4	71.6	54.0	50.9	49.8
85°	57.1	38.4	33.2	32.2	31.1
87.5°	23.9	16.6	15.6	15.6	14.5
90°	0.4	3.2	5.7	7.4	8.5
92.5°	6.7	3.5	5.7	7.4	7.8
95°	20.2	19.1	5.7	7.4	7.4
97.5°	37.8	40.0	6.4	7.1	7.4
100°	59.1	60.1	61.5	8.8	7.4
102.5°	80.6	82.0	82.7	83.5	53.7
105°	104.0	105.4	105.4	105.4	105.0
107.5°	128.0	128.0	128.7	129.1	127.7
110°	151.3	151.3	152.1	151.0	151.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	173.3	174.3	174.7	173.3	172.6
115°	195.2	197.0	197.3	195.9	193.8
117.5°	218.2	218.2	219.6	217.5	216.8
120°	239.4	239.0	240.1	239.4	237.6
122.5°	258.1	259.9	260.3	259.5	257.4
125°	277.6	280.1	280.1	278.6	277.6
127.5°	296.3	298.1	297.7	297.0	294.2
130°	313.3	315.1	315.4	314.4	312.6
132.5°	330.3	332.4	331.3	331.3	329.6
135°	346.2	348.3	347.6	346.9	344.8
137.5°	361.0	363.2	362.4	362.4	360.7
140°	375.5	376.2	375.9	376.6	374.5
142.5°	388.6	389.0	389.7	389.7	387.6
145°	401.3	402.1	402.1	402.4	400.3
147.5°	412.7	412.7	413.0	413.4	410.9
150°	423.3	422.6	423.3	424.0	421.1
152.5°	433.5	431.8	432.5	433.2	430.7
155°	442.0	439.9	440.6	441.7	438.8
157.5°	448.7	447.7	447.7	448.7	445.9
160°	455.8	453.7	454.0	455.4	452.6
162.5°	461.5	459.3	459.7	461.8	458.6
165°	466.4	464.3	464.6	466.8	463.9
167.5°	470.3	468.2	468.5	471.0	467.8
170°	473.5	471.0	471.4	474.2	471.0
172.5°	475.6	473.1	473.8	476.3	473.1
175°	477.0	474.9	475.2	478.1	474.9
177.5°	478.1	476.0	476.3	478.8	476.0
180°	477.0	477.0	477.0	477.0	477.0

(END OF REPORT)